FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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o. 2320.—Vol. L.

LONDON, SATURDAY, FEBUARY 7, 1880.

[SUPPLEMENT.] PRICE SIXPENCE. PER ANNUM, BY POST, £1 4e.

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CIAL DEALINGS in the following, or part:—
mads, 18s. 6d.
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ue Hills.
15 Grogwinion, £3 16s. 3
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16 Hingston Down, 32s. 6
15 Jayali, 7s.
marvon Cop., 22s. 6
pojapo.
ob's Kitchen, £34.
po Copper, £49%.
10 Mineral Corporation.
ob's Kitchen, £84.
pe Copper, £49%.
10 Mineral Corporation.
solidated.
10 Scottish Aust., £2 1 3
20 S. Indian Gold.
10 Santa Barbara, £2%.
15 South Crefty, £17%.
15 South Condurrow, £14.
15 South Condurrow, £14.
15 South Condurrow, £14.
15 South Crebor, £13.
16 Scottish Aust., £2 1 3
20 S. Indian Gold.
10 Santa Barbara, £2%.
15 South Dorfery, £17%.
15 South Condurrow, £14.
15 South Condurrow, £14.
15 South Crebor, £13.
16 South Darren, £3 12 6.
18 South Prancer, £17.
15 South Condurrow, £14.
15 South Crebor, £13.
16 South Parner, £21%.
15 South Crebor, £13.
16 Scottish Aust., £2 1 3
10 Sco

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BYARVON. MONA.
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Dansolidated, 22s.

Dolorado, £2½.

Chontales, 9s. 6d.

Canadian Oopper, 31s.

Deven Consols, 19.

Don Pedro.

Berhardt, £5½.

Derwent, £4½.

East Caradon, £5½.

East Crebor.

East Crebor.

ndermentioned:—
50 Ped-yr-Orsedd, 25s.
100 Pestarena, 7s. 6d.
10 S. Condurrow, £13½.
50 So. Penstruthal, 17s 6
5 South Crofty, £18.
40 South Darren, £3½.
10 Tincroft, £25.
15 Tankerville, £6.
5 Wheal Bisters, £33.
70 Wheal Jewell, 25s.
20 West Peevor.
5 Wheal Peevor,
5 Wheal Peevor,
2 West Seton, £70.
5 West Tolgus, £72½.
55 West Holway.
150 Yorke Pen. Pref., 31s. East Crebor.
East Pool, £36.
East Lovell, £3%. East Roman Gravels. Frontino, £3½. Flagstaff, £3½.

Arge profits may be realised by the purchase of SHARES in SOUND wellseted MINES at prosent prices. Many of these are likely to advance conerably in market value during the next few months.

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The—Wheal Peevor, Wheal Grenville, Carn Brea, West Peevor, Wheal
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liters, Panuicillo, West Seton, Parys Corporation, Wheal Jewell, Copiapo.

EAD.—Dervent, Port Nigel, South Darren, West Assheton, East Koman
wels, Pateley Bridge, Booldiris, and Penyr-Orance
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Blue Hills.
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Bedford United.
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East Caradon.
East Caradon.
East Lovell.
East Cara.
Devong Copper.
East Covell.
Devong Copper.
Devong Copper 150 South Indian Gold. 80 South Penstruthal. 60 South Crebor. 100 Tamar Silver-Lead. 25 West Chiverton. 2 Wheal Sisters. 50 West Kitty. 100 West Holway. 5 South Crofty. 35 Wheal Uny. 20 Wheal Kitty. 55 Ystwyth. ton Brewery.
Don Pedro.
Bast Caradon.
Bast Lovell.
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Frongoch. 100 Parys Copper. 50 Phœnix. UYERS or SELLERS of any of the above, or holders of any Stocks or Shares readily marketable, will do well to apply to Mr. Budge.

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WEST KITTY. | WHEAL PEEVOR. | WEST PEEVOR. WEST KITTY shares, when first strongly recommended by me about two months since, were at 20s. per share; they have since advanced to 23½ buyers. A slight reaction in sympathy with the Tin Market has taken place in this as it all other leading mines, but the reaction is natural and temporary. The opportunity should only be seized by Buyers to secure Shares. I believe that firm holders will in due time be in the receipt of good dividends, and that the shares will stand at £10 each. Orders to buy have been difficult to execute, and many have been sent back. Every new purchase makes the shares more difficult to get. NEW KITTY will also certainly advance. There is information already known in certain quarters which will secure that result.

I recommended WHEAT PEEVOR at £5, they are now at £35. A month since I recommended WEST PEEVOR at £8, they are now at £10½, and I recommend WEST KITTY and NEW KITTY with equal confidence.

WEST KITTY and NEW KITTY with equal confidence.

JOHN B. REYNOLDS, 37, WALBROOK, LONDON, E.C., gave as the result of his investigations strong recommendations for the purchase of the following SHARES, and the advance in each instance is correctly marked underneath since such recommendation was made. He predicts for WEST KITTY and other Mines an equal advantage to buyers:—

Becommended at—per share. Present price.

Dolcosth £23 £25 £70 £75

South Condurrow 10 10½ 13½ 14

Tincroft 5 6 27 23

Mellanear 3½ 4 6½ 6½

Wheal Peevor 5½ 6½ 35 37

Mr. REYNOLDS urges his numerous correspondents to telegraph their instructions with regard to any shares, and recommends them to BUX and SELL only for cash, especially in the leading mines, where fluctuations are so considerable.

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FORTNIGHTLY ACCOUNTS opened, on receipt of the usual "cover," in Railways Home and Foreign, Mining Shares, Foreign Bonds, and certain Miscellaneous Securities.

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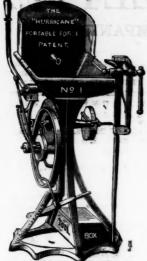
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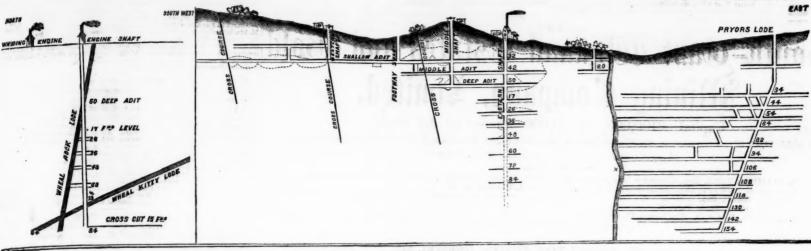
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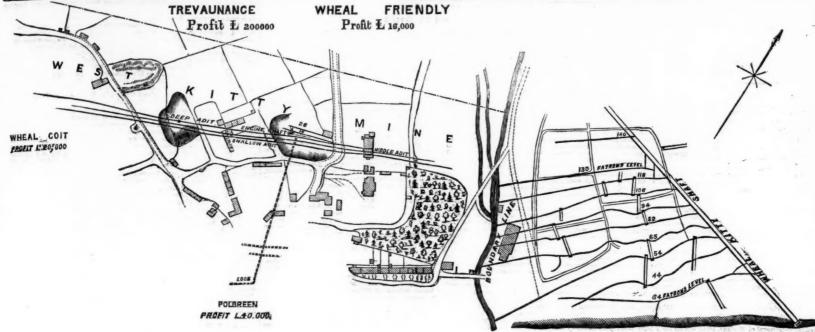
PLAN OF WEST KITTY MINE AND WORKINGS IN WHEAL KITTY ADJOINING.

VERTICAL (NORTH AND SOUTH) SECTION OF WEST KITTY MINE.

VERTICAL (EAST AND WEST) SECTION OF WEST KITTY MINE

SECTION OF WHEAL KITTY.
Profit about £50,000. Dividend, 38 per cent.
te Tin Ground passing into the West Kitty Mine
(Ends up to the Boundary.)





Surface of Ground in Wheal Kitty Mine.

forth, induce us to call the attention of our readers to further facts which have come under our notice. In our price list it will be seen that the sum of 2s. per share is stated to have been paid on the shares of this company; but our readers will understand, without going into details, that this by no means gives a correct impression as to the actual sum which has been expended in the development of this property. The most ignorant will hardly suppose that 2s. per share was sufficient to purchase the splendid machinery on the property; to sink the shaft from surface 120 fms.; to extend levels, and to do the large amount of other work which has so successfully been carried out. When the proprietors agreed to constitute themselves into a company, subject to the Act of Parliament, 1869, for the Better Regulation of Mines Within the Stannaries, it would have been quite fair for them to have taken credit for about 3l. 10s. per share on the 6000 shares; and, if it had been their intention to appeal to the public for money and to bring the mine out under the Limited Liability Act, they unquestionably would have done so. But they had no such intention. Their resolve was, and indeed is, to have the mine worked to its legitimate issue under the safest and most economical principle they could adopt. They would have gained nothing by having it stated that 3l. 10s. had been paid upon their shares under the Costbook System. The dividends will be equally distributed amongst the shareholders, without any reference to the amount which is paid on their respective holdings. Thus it was that the profits in Trevaunance were equally distributed amongst the proprietors, and it would have mattered nothing to them if their shares had a sum of 100l. each credited. We are glad to be called upon to direct attention to this question because it opensup a very serious one for the British capitalist, and no one will understand the importance of it more than those who have most unwisely consented to the issue of a large number of fully paid-

In making these observations we wish it to be most distinctly understood, however, that had West Kitty been brought out under the Limited Liability Act the sum of 20,000*l*. would have been an ex-

The interest which has been excited by the two articles written on the above plan, and the questions which those articles have called forth, induce us to call the attention of our readers to further facts which have come under our notice. In our price list it will be seen that the sum of 2s, per share is stated to have been paid on the shares that the sum of 2s, per share is stated to have been paid on the shares details, that this by no means gives a correct impression as to the actual sum which has been expended in the development of this property. The most ignorant will hardly suppose that 2s, per share was sufficient to purchase the splendid machinery on the property; to sink the shaft from surface 120 fms.; to extend levels, and to do the large amount of other work which has so successfully been carried out. When the proprietors agreed to constitute themselves into a company, subject to the Act of Parliament, 1869, for the Better Regulation of Mines with the stannaries, it would have been quite fair for them to have taken credit for about 3l. 10s. per share on the 6000 shares; and, if it had been their intention to appeal to the public for money and to bring the mine out under the Limited Liability Act, they unquestionably would have done so. But they had no such intention. Their resolve was, and indeed is, to have the mine worked to list of the public for money itself; and it leaves no doubt not only as to the position of this property, but also as to the value of it. We did not intend to give this evidence, as we thought that our general statements, based as fully the surface and the properious and we will take from this report only two paragraphs as indicative to the stated that 3l. 10s. had been paid upon their shares under the Cost-book System. The dividends will be equally distributed amongst the proprietors, and it would have were the general tenor:—"The Wheal Kitty Mine adjoins this mine to the tense of the proprietors, and it would have been most readily subscribed, as we can the foot and they ser tin ores in that mine traverse the whole of this sett at a moderate depth, in a stratum which is congenial for tin, and can be easily wrought." "In conclusion, we beg to say that we have inspected nearly all the mines in Cornwall, and, judging from the present appearance and the position of the mine, which is quite in the centre of some of the best mines of the district, we consider this should be laid open as early as possible."

Now those paragraphs forever settled two points.—1. That the Wheal Kitty lodes traverse the entire length of West Kitty.—2. That the stratification is right. And it must be remembered that this report was made before the present machinery was put up, and, consequently, before the Wheal Kitty lode was cut in West Kitty engine-shaft. We wish we could give the whole of the reports in ex-

gine-shaft. We wish we could give the whole of the reports in ex-

tenso, but the pressure on our space will not admit of it Nevertheless, the subject is so important to those who are on the look out for a first-class mining investment that we feel compelled to give some further extracts. The following is from the discoverer of Great Wheal Vor, a tin mine of world-wide celebrity:—"It is seldom we have seen a piece of mining ground where there is so small a risk for the capital required to explore such productive lodes as have been worked in Wheal Kitty for about the last 40 years." Capt. Gilbert, then the manager of West Basset, is still stronger in his assertions, and says:—"I should strongly recommend that an engine be speedily erected, and the shaft sunk to the depth required to intersect Wheal Kitty lode. I believe this would ensure success, and make this mine as profitable and as lasting as any of its rich neighbours." But we might enlarge ad infinitium. West Kitty is admitted to be a first-class mining property, and it is impossible to estimate its value. The above reports were written before the 50-in. engine was put up. But what has occurred since? The shaft has been sunk; the Wheal Kitty lode has been cut; on its course to the west they have a dis-Ritty lode has been cut; on its course to the west they have a distance of 100 fms.; on its course to the east, and towards Wheal Kitty, they have a distance of 90 fms.; and the manager, who is reported to be one of the most cautious men in Cornwall, pronounces the mine to be a prize, and says that in due course "we shall be able to return 20 tons of tin per month" from this Wheal Kitty lode, cut in the West Kitty shaft. No one can refute that statement.

The lode traversing this district is uponestionably one of the finest

in the West Kitty shaft. No one can refute that statement.

The lode, traversing this district, is unquestionably one of the finest in Cornwall. We are not surprised, under the foregoing circumstances, at the demand which has sprung up for New Kitty shares (late Polbreen). The influential shareholders of West Kitty who are grappling with that property will do well. The situation of the mine, the extent of the sett, and its proximity to Wheal Kitty and West Kitty, all single it out as, and destine it to take a very prominent position in this very celebrated group. The facts stated in these articles, which we have gathered on the highest authority, are such as will not only command confidence, but are facts which must inevitably advance the market value of these mines very considerably; and we are glad, not only in the interests of mining generally but in the interest of St. Agnes' district in particular, that so many are waking up to the facts.

[The offices of both these companies are at 37, Walbrook, E.C., where shareholders should apply for their information.]

where shareholders should apply for their information.]

The Theory and Practice of Ventilating Coal Mines.—
The wising Journal, and he has now added another—The Theory and Practice of Ventilating Coal Mines—which will be equally appreciated. He fears that great ignorance still prevails in mining quarters on the fears that great ignorance still prevails in mining quarters on the whole number depends upon the individual action of each man employed. Mr. Fairley explains as much as possible by the working out of examples authentically the various principles taken into consideration. In connection with the cause of motion in air it is shown and rice versa. In addition to these there is an excellent table of popurations, and rice versa. The fact of the manuscript of the work having been examples awhen the language. With a view to make these obstacles as from the manner in which the work has been performed it cannot find to come largely into use wherever the German miner or metallurgist is to be found. The calendar (which is obtainable in London through Messrs. Trübner and Co., Ludgate-hill) a very useful little felt as possible Mr. J. J. Baranowski has just published (London: Tribner and Co., Ludgate-hill) a very useful little volume—metallurgist is to be found. The calendar (which is obtainable in London through Messrs. Trübner and Co., Ludgate-hill) shows the deficiency of the language and a copious collection to London through Messrs. Trübner and Co., Ludgate-hill) shows the state great ignorance still prevails in mining quarters on the warious days are dedicated in the Protestants, Catholic, and Greek churches, as well as the Jewish feasts and fasts, catholic, and Greek churches, as well as the Jewish feasts and fasts, catholic, and Greek churches, as well as the Jewish feasts and fasts, catholic, and Greek churches, as well as the Jewish feasts and fasts, catholic, and Greek churches, as well as the Jewish feasts and fasts, catholic, and Greek churches, as well as the Jewish feasts and fasts, catholic, and Greek churches, as well as the Jewish feasts and fasts, catho sideration. In connection was be expressed either by rect of authentically that pressure may be expressed either by rect of authentically that pressure may be expressed either by rect of column, inches of water gauge, or lbs. per square foot; several new formulæ are given for determining the friction of air, and the effect of splitting, as well as the results of equal and unequal splitting, are fully discussed. Particular attention is drawn to the question of fully discussed. Particular attention that it may be too high for the runy discussed. Particular attention is drawn to the question of velocity, Mr. Fairley being of opinion that it may be too high for the ventilation to be efficient. For the practical man who has had a sound general education the book is calculated to be of great utility, whilst it is sufficiently concise to suit the most busily engaged engineer. The book is published at the Colliery Guardian office, Essex-

MONTANISTISCHER KALENDER.—For the past few years Mr. Carl Fromme, of Vienna, has added to his already large list of technical calendars one specially adapted to the requirement of miners—Montainstischer Kalender für Oesterreich-Ungar—edited by Mr. Victor Wolff, the secretary of the Austrian Mining and Ironworkers' Union

approach to absolute actuary can be obtained a mise by inspection. There are a good mining directory, mineral statistics, metallurgical tables, and numerous memoranda, of considerable utility to mining engineers. These, with about a quire of quadrilled memorandum paper, are all included in a neat little volume, scarcely \$\frac{3}{8}\$ in thick, and which can be conveniently carried in the pocket. The calendar and which can be conveniently carried in the pocket. The calenda is likely to enjoy a wider circulation in proportion as it become

FRENCH STUDENTS' VADE MECUM,-Although the study of the

whilst as to its utility the question is not likely to be raised. are a few typographical errors, as on page 31(b), where en is printed for en, but as the context suffices for their correction they are not important. Much may be learned from the study of the book, and many stupid and annoying blunders may be avoided by carefully attending to the instruction given. The Vade Mecum is well worthy of attentive perusal by all who desire to attain perfection.

CASSELL'S PUBLICATIONS. - The History of Protestantism, part 8, French language is commenced by a large number of Englishmen comparatively few reach any point approaching fluency and accuracy in its use, owing, in the first place, to the difficulty of mastering the grammatical niceties which are usually only to be found scattered over large volumes; and, secondly. to the insufficient study of the session, however, would not acknowledge the authority of the Council or of the third Pope; and, as the trio fought spiritually and temporally, with an amount of venom only met with among the clergy, the errors of Popery became more obvious, and Protestantism took so firm a hold upon the people that it has ever since continued to progress. The succeeding chapter refers to the denouncement of Loilardism as treason; and accounts are given of the martyrdom of Lord Cobham, Loilardism under Henry V, and VI., the resistance to Papal encroachments, and the influence of the wars of the 15th century upon Protestantism. The eighth

book is commenced, in which will be given the history of Protestantism in Switzerland from 1515 to 1525. Knight's Dictionary of Mechanics, part 38, extends from "Inhaul" to "Joggle Work." "Science for All," part 27, contains articles on a Butterfly, a piece of Whinstone, the Bottom of the Sen, Mars, and on Visible Sound. The Great Industries of Great Britain contains continuations of the articles on pottery and prorelain, cotton, wool, and worsted, iron and steel, shipbuilding, and on eminent manufacturers.

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TEMPORARY OFFICES—31, LOMBARD STREET, LONDON, E.C.

PROSPECTUS

This company is formed to acquire, cultivate, and develope several states in the bootto-keet Wymaad in the Nigiri district of the Madeas Precidency, and to the State of the Window of Window of the Window of Window

PROVINCIAL STOCK AND SHARE MARKETS.

PROVINCIAL STOCK AND SHARE MARKETS.

MANCHESTER.—Messrs. JOSEPH R. and W. P. BAINES, sharebrokers, Queen's Chambers, Market-street, Manchester (Feb. 5), write—A fair amount of business is reported as having been transacted during the past week, and prices, with the exception of the iron, &c., companies are again generally higher. Although the market may be said to have lost to'some extent the extreme buoyancy—that is, in its effect on all classes of securitie alike and without discrimination—still a steady demand continues and keeps prices from receding much, but the opinion seems becoming apparent that some stocks have reached prices which it would be unwise to follow further, and this causes attention to be given to very low-priced stocks, some of which have moved upward very decidedly since last report. It is only reasonable that when operators find stocks in which they have been dealing getting to prices at which it becomes somewhat precarious to still follow them, a fresh channel of investment should be sought for, and demand bringing hithertoneglected concerns into notice, causes them to participate to a less or greater degree in the general advance. Such has been the case lately, and whilst the concerns which have figured foremost in the late advance maintain their values very fairly, enquiry is now noticed for concerns still low. The tone of the market is strong and hopeful. Banking concerns have been dealt int on a moderate exteut, and prices have on all our local banks made advances, Manchester and Livergool District. Bank being foremost with ½ better quotation; on the

market is strong and hopeful. Banking concerns have been dealt in to a moderate exteut, and prices have on all our local banks made advances, Manchester and Liverpool District Bank being foremost with ½ better quotation; on the other hand, National Provincial (new) show a deciline of ½.

INSURANCE.—About an average business is reported in this class of securities, and all the variations are for the better. Royal Liverpool are ¾, Liverpool and London and Globe ¾, and Thamas and Mersey Marine ¼ higher. The rest of the changes, and they are not numerous, are only slight.

MINERAL AND MANUFACTURING.—It is to this class especially that our general remarks apply. The alterations in prices for the better, and those showing decilines are pretty evenly balanced, the changes being attibutable, doubtess, to individual causes. The chief features noticeable are—Higher: Nant-y-Glo and Blaina (preferred), 11: United State's Bolling Stock, 3; Chatterley Iron, 1¼. Bolckow, & (601. paid), 1½; ditto, B, 1: Cammell, 1; and Tredegar, B, 1.—Lower: Sheepbridge, 3; Tharsis Sulphur; ½; Earle's Shipbullding, ½%; Bilbao Iron, 0rc, 3½; Yulcan Foundry and Great Laxey Lead Mine 1 each.

Cotton Spinking And Manufacturing.—In cotton spinning concerns a fresh spring has occurred this week, and prices all round have gone up some shillings. This market, consequent seemingly of the strength of the trade generally in the matter of showing good margin of profit, and the attraction of fresh capital for investment therein, has during the past few days again become rampant, the demand being general. Good premiums are now asked and got for shares which some few weeks ago were at long discounts. Much confidence seems to be felt in the future of the trade generally and as long as this lasts we may look for prices going yet higher.

Gas AND WATER ANNUTIES AND Corporation Stock has not been much in

one not at all liable to fluctuation, there is seldom much to report upon, and now that surplus capital can find profitable employment elsewhere, this is quiet, but prices do not relax in the least.

MISCELLANEOUS CONCERNS have had a tolerably good demand, transactions being reported in Union Plate Glass, London and Manchester Plate Glass, Birkenhead Trams, Manchester Carriage Company (the B stock being % higer, without business done), Household Stores, and Bridgewater Navigation. The majority of the alterations in prices are favourable.

RAILWAYS.—The advance in Chathams mentioned last week has not been maintained, the price having receded to about 31, but this is about the only adverse movement during the week. Sheffields have been in considerable demand, and their price shows a rise of 5; Great Northern and Midlands, too, have been strong, and are 5% and 2% better respectively compared with last week. The announcement of the vividend on the last-named stock at 5%, with 47,000L carried forward, gave a spring to the market, and their price went to 144 odd, from which, however, they have relapsed to 143, 143%. The market has been generally strong, and closes to-day very good.

NEWCASTLE-ON-TYNE STOCK EXCHANGE.—Messrs. SPENCE and IRWIN, stock and share brokers, Grey-street (Feb. 5), write:—The market during the past week has been scarcely so active. Bede Metal shares continue flat, very few being disposed to do anything in them until after the meeting, which is to be held next month. They are offered to-day at 1½ dis. Bolckow, Vaughan, and Co. shares have been in strong demand during the week, and have, in consequence, improved been in strong demand during the week, and have, in consequence, improved was passed expressing the wish of those present at the meeting that the bank should, under those circumstances, be registered as a specific of the properties who are consequenced to suppose the rate of the sale was passed expressing the wish of those present at the meeting that the bank should, under those circumstances, be registered as a specific or the properties who are consequence of those steps that the bank should, under those circumstances, be registered as a specific or the properties who are consequence of those steps that the bank should, under those circumstances, be registered as a specific or the passed of the properties who are the properties who attended the general meeting in May last the undertook that the Banking Bill, then before the House of Commons, if it should become law, should be brought before the should become law, should be considered to consider the scheme. The properties who attended the general meeting in May last the undertook that the Banking Bill, then before the House of Commons, if it should become law, should be brought before the consequence of the properties who attended the general meeting in May last the undertook that the Banking Bill, then before the House of the properties who attended the general meeting in May last the undertook that the Banking Bill, then before the House of the properties who attended the general meeting in May last the undertook that the Banking Bill, then before the House of the properties who attended the general meeting market during the past week has been scarcely so active. Bede Metal shares continue flat, very few being disposed to do anything in them until after the meeting, which is to be held next month. They are offered to-day at 1½ dis. Bolckow, Vaughan, and Co. shares have been in strong demand during the week, and have, in consequence, improved in price, and now stand at 152 to 153 for 1001, paid; 30½ to 30½ prem. for 801, paid, 47 to 47½ for B; and 20½ to 20½ for 5 per cent. preference shares.—Conjudent of 10 per cent. per annum, was declared on the 2nd inst., payable on the 16th. This compares with 5s. per share paid last year; but yet some disappointment has been expressed that it was not more. However, the improvement in trade, could not have effected them much up to the close of the half year, and it has always been the custom of the directors to keep the interim dividend well; within the available profits. We understand 10s. per share could have been paid. The price to-day is 17½ to 18 prem. Consett Spanish Ore shares were in demand until Monday, in expectation of an interim dividend; but none being declared, the price gave way, and there are now larger sellers at 38s., with no demand until Monday, in expectation of an interim dividend; but none being declared, the price gave way, and there are now larger sellers at 38 with no demand until Monday, in expectation of an interim dividend; but none being declared, the price gave way, and there are now larger sellers at 38 with no demand until Monday, in expectation of an interim dividend; but none being declared, the price gave way, and the providence of the latter to a similar buyers. Darlington Iron shares are very quiet, at 4½ to 5. John Abbot and Co. shares are called to consider the scheme. The call the preceding divident well with the advance of the latter to 5½ dis. has drawn attention to the surface of the latter to 5½ dis. has a drawn attention to the buyers. Darlington Iron shares are very quiet, at 4½ to 5. John Abbot and Co. shares are so fail, at 4½ to

and close 6 to 6%. The directors of the Crook Burn Mine have decided to up a pulsometer pump, and so get rid of the water. The great improvement of the control of the water is a good of the water is a discovery of the shares; is a did as (5s. paid) is bid; no selfers. In Dubby 8 Mine they will be able to commence operations by the new shart is well of the water of the w

HULL.—Mr. W. F. SUTTON, stock and share broker, St. Maryi Chambers (Feb. 5), writes:—The prices of railway stocks have been well maintained during the past week, and in the case of Gray Northern, Caledonian, London and Sheffield, there has been a con-Northern, Caledonian, London and Sheffield, there has been a on-siderable enhancement in value. The latter are especially strong on very sanguine views as to the future of the lines, and the deferred stock has, vanced about 7 per cent. in three days. Already, with one month gone only of the present year, an estimate of the year's dividend appears in one London use, and the speculative mania is so strong that in anticipation of a possible real which cannot be known for 12 months the stock is pushed up to a price whete can only be justified by actual realisation. Trunks have had a rather sensake, but have railised again, and look like making a further advance. To dry traffic must be considered highly satisfactory, and the line has yet to feel the henefit of the Chicago extension. Local stocks without change. Quotations e-Hull Bank, 55; Yorkshire Bank, 28½; London and Yorkshire Bank, 28.5.; Hull Docks, 52½ ex div.; and Earle's Shipbuilding stock 20; these last, by the way, being somewhat lower on realisations to secure profit

| S; Wheal Basset, 4 to 4½; Wheal Grenville, 3½ to 9½; Wheal Kitty, 1½ ioi; Wheal Peevor, 35 to 37; Wheal Unty, 5½ to 5½.

— Mr. J. H. REYNOLDS, stock and share broker, Redruth (Feb. 5), writs;—The smelters having reduced the standards 3½, per ton in the early part of the week, consequent on the decline in the metal market, caused a semi-panients share market, and prices receded rapidly, but yesterday and to-day prices have recovered themselves on an improvement in the tim market, and close as follows.—Blue Hills, 4½ to 4½; Carn Brea, 102 to 105; Cook's Kitchen, 7½ to 7½; New Cook's Kitchen, 1½ to 1½; Seat Fool, 3½ to 3½; East Fool, 3½ to 3½; East Fool, 3½ to 3½; Seat Fool, 3½ to 3½; Seat Fool, 3½; Heishear, 6½ to 6½; South Caradon, 15½ to 16½; South Caradon, 15½ to 38 to 38; Wheal Uny, 5½ to 5½; Wheal Jewell, 1½ to 1½; Wheal Prusia, 202½.

— Messrs. ABBOTT and WICKETT, Redruth (Feb. 5), write:—The market use nablect to violent fluctuations this week, owing to the fall in the standard. Late last night there was a smart recovery, and most shares are now firm, with an unpard tendency. Subjoined are the closing prices:—Botallack, \$5 to 18; Carn Brea, 100 to 102; Cook's Kitchen, 7½ to 8½; Dolcoath, 71 to 73; East Ped. 7½ New Cook's Kitchen, 5½ to 7½; New Cook's Kitchen, 5½ to 7; Pendarves United, 11 to 13; South Condurrow, 13 to 13½; South Cruft, 7; Pendarves United, 11 to 13; South Condurrow, 13 to 13½; South Cruft, 7; Pendarves United, 11 to 13; South Condurrow, 13 to 13½; South Cruft, 7; West Frances, 22 to 23; West Peevor, 10½ to 11; West Seton, 65 to 70; West Colyus, 63 to 70; Wheal Agar, 8 to 8½; Wheal Basset, 4 to 4½; Wheal Grenville, 3½ to 5½; Wheal Very, 36 to 37; Wheal Kitty (St. Agnes), 7½ to 7½; Whasl Grenville, 3½ to 8½; Wheal Peevor, 36 to 37; Wheal Kitty (St. Agnes), 7½ to 7½; Whasl Prussia, 2½ to 2½; Wheal Uny, 5½ to 5½.

— Mr. M. W. BawDex, Liskeard (Feb. 5), writes:—The reduction of 3½, on the

Prussia, 2½ to 2½; Wheal Uny, 5½ to 5½.

— Mr. M. W. Bawden, Liskeard (Feb. 5), writes:—The reduction of 3l. Tin Standards and heavy advices of copper from Chili has reversed the of the share market from buyers to sellers, and prices generally have receded to-day tin and copper have improved, and shares are firmer, the subjoined the closing quotations:—Bedford United, 1½ to 1½; Carn Brea, 37½; Clitters, 5 to 5½; Cook's Kitchen, 7 to 7½; Dolcoath, 70 to 71; Devot 17½ to 18; East Caradon, 4½ to 4½; East Pool, 35 to 36; Gawton, 1½ Glasgow Caradon, 1½ to 2; Herodafoot, 4 to 4½; Hingston Down, 1½ Marke Valley, 3½ to 3½; Phænix, 6½ to 6½; South Caradon, 135 to 10; Crofty, 15½ to 16; South Frances, 15 to 15½; Tincroft, 28 to 27; West 17 to 18; West Frances, 20 to 21; West Mary Ann, 1½ to 1½; Wheal (12 to 12½; Wheal Peevor, 34 to 35; Wheal Uny, 5 to 5½.

Meetings of Public Companies.

NATIONAL PROVINCIAL BANK OF ENGLAND,

An extraordinary general meeting of proprietors was held at the Bank House, Bishopsgate-street, on Thursday,
Mr. RICHARD BLANEY WADE in the chair.

An extraordinary general meeting of proprietors was held at the Bank House, Bishopsgate-street, on Thursday,

Mr. R. FERGUSSON (joint manager) read the notice convening the meeting, and the special report of the directors was submitted.

The report stated that the board had set forth for the consideration of the meeting the measures which they consided essential for the purpose of regiments of banking and other joint stock companies." The directors had each owner of banking and other joint stock companies." The directors had eavoured not only to consider the interests of the shareholders, but also the interests and complete security of the depositors and customers of the hair. The board considered it necessary to issue 16,875 20/2 shares, at 10/, per also premium. In order to give ample time for payment of instalment 30/, part premium. In order to give ample time for payment of mistalment 21/, part premium. 21/, jan. 15, 1885—instalment 22/, part premium 22/, jan. 15, 1885—instalment 22/, part premium 22/, jan. 15, 1885—instalment 22/, part premium 21/, jan. 15, 1885—instalment 22/. The shares would be allotted to those proprietors whose names stood upon the register on the 8th inst., in the following proportions—viz., 7-49ths of a share to each 50/, share.

Attention was also directed to the circular which had been forwarded to the proprietors, and in which it was stated that in accordance with the opinion expressed at the last annual meeting that the liability of proprietors should be limited, they were desired by the directors to inform the proprietors should be imited, they were desired by the directors to inform the proprietors should be instead, they were desired by the directors to inform the proprietors should be instead, they were desired by the directors to inform the proprietors should be instead, they were desired by the directors to inform the proprietors should be instead, they were desired by the directors to inform the proprietors should be increased to at least 12,000,000/.

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SENTEIN SILVER-LEAD AND BLENDE MINE.

object."
The resolution was seconded by Mr. Henry Paull, and unanimously carried. The Chairman, in acknowledging the cordial vote of thanks voted to himself and the board, remarked that another extraordinary general meeting would be necessary in order give validity to what they had now done, and that this would be held on April 8.—The meeting then separated.

TO THE EDITOR OF THE MINING JOURNAL. SIR,-Will you in your to-morrow's Journal kindly correct a typo-Sir,—Will you in your to-morrows Journal kindly correct a typographical error which appeared in your last. Instead of 5 tons a fathom produced by the No. 4 St. Eugenie end, when I saw it, it should have been 9 tons, the end promising still further improvement. It now, as per advices from the manager, yields 15 tons to the fathom. I may also observe that this end is now being crossed by a caunter lode; a lode of great magnitude, composed, it is reported, principally of the ore of lead with only a little blende. I have long been expecting to hear mention made of this lode's intersection having been expecting to hear mention made of this lode's intersection having been ment with in the ends or levels driving on the sections having been met with in the ends or levels driving on the other. It is a lode of great width and strength; it can be traced, projecting above the surface of the mountain, for a considerable distance in a direction to cross the other at about right angles. It has now been found to cross it in all its strength and magnitude, composed principally of lead ore. To what amount, it may be asked, will the presence of this lode, prolific as it promises to be, add to the value of the Sentein Mine? The width of this caunter lode has not

INVESTMENT NOTES.

The relapse in prices which commenced last Friday continned until yesterday, when a firmer tone prevailed, and steady purchases of good shares were made. A drop in the tin standards should not alarm investors when it is borne in mind that tin is considerably better than it was at the beginning of this year. There is no fear of a heavy drop, but rather is there almost a certainty of a further upward movement in the value of all metals. Even if tin remains at its present price it will be sufficient to enable mines to give good dividends. Such temporary reactions as we have witnessed in the share market this week afford an opportunity to buyers. While some shares have been depressed it is satisfactory to record a good rise in shares recommended in these "Notes." As we anticipated, Crebor is now making a fine monthly profit. The sale next week will, probably, realise over 2500'c, leaving a profit for two months of at least 1700'. Purchasers at 13 and 13'x will, we think, be able to realise a good profit. Another of our selections, North Penstruthal, has come prominently into favour, and there has been a brisk demand for shares. Copper ore has been met with in the shaft, which may cause a great rise in price. At 2'y to 3 they are an exceelingly reliable property during the year. There is a large amount of capital in hand, and at anything like 20s. shares are a very cheap speculation. East Crebor and South Crebor, and when the whole has every prospect of becoming an exceedingly reliable property during the year. There is a large amount of capital in hand, and at anything like 20s. shares are a very cheap speculation. East Crebor and South Crebor shares have been very largely death in. It is to be regretted that a larger amount of capital was not left to the credit of East Crebor, but in answer to many enquiries received it may be stated that any call made will be of small amount, and shareholders will, of course, readily respond to it, to develop such a promising vine. There is ample capital in hand, at South Crebor, The relapse in prices which commenced last Friday continued until

EAST CREBOR.—It is understood that the purchases of shares in East Crebor during the past fortnight have been exceedingly large, and that some of the best names in the Stock Exchange have been passed on the tickets at the recent settlement. The forthcoming sale of ore at Crebor (over 500 tons of rich ore), and the great value of the ends running in the direction of Feat Crebor induce many persons. the ends running in the direction of East Crebor, induce many persons to believe that this latter mine is destined to advance considerably in estimation during the next two or three months.

nestimation during the next two or three months.

DEVON CONSOLS DISTRICT.—It is said an important concern has been brought out the latter part of this week, a company having been formed to work the adjoining ground immediately to the west of Devon Consols, and containing the same valuable south lodes, under the name of the West Devon Great Consols Mine. It is in the same number of shares as Devon Consols, and it is reported a valuable copper lode has been just cut. All the shares we understand have been subscribed for, quite privately, without a prospectus being issued, and are expected to rise considerably in value, but our readers will probably know more about it next week. will probably know more about it next week.

WHEAL JANE-EAST CHIVERTON-WEST CHIVERTON.-Meet lugs of these companies was held at the offices, Basinghall-street, yesterday, when the respective accounts were passed and allowed. Reports of the proceedings will appear in next week's Mining Journal.

NORTH PENSTRUTHAL.—An improvement of importance has taken place in this mine. Yellow copper ore has been broken in the shaft

It has always been anticipated that ore would be found in sinking as soon as the shaft was deep enough to get out of the influence of the elvan course, which in the old company's working disordered the

NORTH PENSTRUTHAL AND SOUTH PENSTRUTHAL.—As enquiries have been made about these companies and their relation to each other, it may be as well to state that the two companies are distinct, and neither connected with the Penstruthal Consols (Limited) Company, in liquidation. The new companies are on the Cost-book Principle, each in 6000 shares, both 10s. called up. The North Penstruthal are the owners by purchase of the north part of the sett, comprising the Highburrow lode, on which the limited company worked, and other lodes, including the 40-feet lode and cross-cut driving to cut that lode. In the shaft at Highburrow some good copper ore has been met. The South Penstruthal Company is formed for reworking what was known in old days as Penstruthal Mine, and which years ago gave such large profits to the adventurers who then worked it, and made it one of the historical mines of Cornwall. It is very near Tresavean, and adjoins Wheal Comford and North Tresavean. The first and immediate object of South Penstruthal will be the erection of a substantial engine and fixing of pitwork in NORTH PENSTRUTHAL AND SOUTH PENSTRUTHAL .- As enquiries will be the erection of a substantial engine and fixing of pitwork in the shaft, already down 120 fms. It is believed that as soon as the bed or cap of mundic known to exist at the bottom of the shaft has been penetrated a rich course of copper ore will be met, and the mine prove far richer below its present depth than it did above. There are many other objects for this sett to pursue, and considering the situation and district, should be one of the best speculations in Cornwall. When the above uew companies were projected last October the shareholders in the Penstruthal Consols Company, in liquidation, were invited to take shares, and all who responded before the allotments obtained an allotment, not by right, but by virtue of the option then given them. So that the shareholders in each of the new companies are, in fact, those who had faith in the properties and found funds to work. Being Cost-book companies, there were no free shares; all paid alike.

free shares; all paid alike.

BWLCH UNITED.—It is satisfactory to find that the mine has been kept in fork during the last severe frost, and sinking has been resumed at the main shaft by a full force of men. The drivage of the bottom level is also in full activity. No time will now be lost in expediting the erection of the new 40-ft. crushing-wheel, in order to work the dressing machinery and stone-breaker, at the same time to utilise the halvans and quantities of orestuff lying in the dumps at surface.

at surface.

THE TAVISTOCK DISTICT—LADY BERTHA UNITED COPPER MINES.

—It will be noticed that a limited company has been formed, with an influential directorate, for the purpose of continuing the working of the celebrated Lady Bertha and East Bertha Mines. The mines are situated in the parish of Buckland, and possess special advantages in an unlimited supply of water power. Over 30,000% of copper ore has been sold from above the 53 fm. level at Lady Bertha—the deepest point in the mine—and in addition several thousands of tons of the richest arsenical mundic, of which there is an almost inexhaustible quantity. The situation of the mine is undeniable, and they are most favourably reported upon by Capt. W. Richards, of East Russell Mine, Capt. George Rowe, of Gawton Copper Mine, and Mr. R. Walters, mining surveyor, of Tavistock.

SOUTH DEVON UNITED COPPER MINES.—A company has been

Copper Mine, and Mr. R. Walters, mining surveyor, of Tavistock.

SOUTH DEVON UNITED COPPER MINES.—A company has been formed for working the Brookwood and Wheal Emma Mines, at Buckfastleigh, Devon, with a capital of 30,000l., the whole of which has been subscribed by influential parties. It will be in the recollection of many that for years these two mines have been worked by separate companies, always at variance, each endeavouring to control the valuable water-power to the detriment of both concerns. This state of things has, happily, been set at rest by the landlord, the Earl of Macclesfield, taking over all water rights and granting the entire property to the above-mentioned company, at the low royalty of 1-24th. The mines are now drained by water-power alone, which is ample for every purpose, Machinery of the most modern construction is being erected, and from the abundant supply of copper ore coming from the several ends this company will, ere many weeks, be in the market with large and regular sales of ore. The mines are held in high estimation by people in the neighbourhood, and we hear that Mr. Moses Bawden, of Devon Great Consols, has been appointed purser, and also that Mr. Matthews, the engineer to the same mine, has been appointed consulting engineer to the South Devon Mines.

WANTED, by a thoroughly experienced and practical MINE MANAGER, a SITUATION in the above capacity. Considerable home and foreign experience. Acquainted with the Italian, Spanish, and Portuguese languages. Foreign country preferred. Constitution acclimatised to hot climates. Age 35. Open to inspect and report on foreign properties. Satisfactory references.

Address, "H. C.," N. Edwards and Co., 5, Copthall Buildings, London, E.C.

MINING-TO TIN COMPANIES.

WANTED, a SUPPLY of ROASTED TIN ORE, delivered within limits in London.

Samples and quotations to be sent to Mr. E. PARRY, 18, New Bridge-street, London, E.C. REDUCTION OFFICER.

WANTED, to PROCEED to CENTRAL AMERICA, a person acquainted with the TREATMENT of AURIFEROUS ORES. Must have had at least two or three years' experience on a Gold Mine.

Copies of testimonials only to be addressed to "C.," care of Messrs. G. Street and Co., 30, Cornhill, E C.

WANTED, a PAIR of 20 in. AIR COMPRESSORS, 4 ft. to 4 ft. 6 in. stroke, both steam cylinders and air cylinders to be same size. Specification, with price, delivered at Wrexham, to be addressed to H. Dennis, Ruabon.

TO MINING COMPANIES.

THE ADVERTISER, having had many years' experience in Mining abroad, is open to an ENGAGEMENT as MANAGER, or to TEST and REPORT on the VALUE of MINERAL PROPERTY. Address, "B.," MINING JOURNAL Office, 28, Fleet-street, E.C.

TO INVESTORS.—It is very important to Investors in Mines, or proposed Mines, to have RELIABLE Information as to the character of the properties in which they intend to invest. The undersigned undertakes to give such information in relation to any mineral property situate between Tavistock and the Land's End, on the receipt of a fee of Three Guineas for time and expenses.—R. Symons, Mining Engineer and Surveyor, 11, Parade, Truro.

THE OWNER of TWO SLATE QUARRY SETTS in Nanttle Vale would be glad to DISPOSE of ONE OF THEM. All the veins in the Vale would be glad to DISPOSE of ONE OF THEM. All the veins in the Vale run through the properties—Penriyn, Llanberis, Dorothea, Celgwyn, &c. The rock is of first quality, royalty small, tiproom ample for extensive working nd eartage triffing. Apply to A. Martin, Mining Journal Office, 28, Fleet-street, E.C.

POR SALE, BY TENDER, a 30 H.P. Beam CONDENSING ENGINE for winding and other purposes, 30 in. cylinder, metallic piston, 7 ft. stroke, with Two Fly-wheels, Two wrought-iron Double Cranks and Shafts, and Two cast-iron Winding Drums, 6 ft. diameter, with Gear complete. Also CORNISH BOILER for the same.

Tenders to be forwarded to Mr. EDWARD ALLEN, Ivybridge, on or before 1st March next, stating Price for Engine and Boiler together, and Engine alone. For viewing the same, apply to Mr. R. W. ROBERTS, Old Delabole Slate Quarries, Camelford, who will also show STEAM WINCH and DERRICK TO BE DISPOSED OF.

THE REGISTERED OFFICES of the following COMPANIES are at Nos. 9 and 10, CAMBRIDGE CHAMBERS, LORD STREET, LIVER-

POOL:—
THE PRINCE PATRICK LEAD MINING COMPANY (LIMITED).
THE VICTOR LEAD MINING COMPANY (LIMITED)
THE CENTRAL FOXDALE SILVER-LEAD MINING COMPANY (LIMITED).
All communications relative to these companies should be sent to the Registered Offices, as above
THOS. HUGHES, Secretary

THE UNDERSIGNED have several VALUABLE IRON ORE,
NICKEL, LEAD, COPPER, and ZINC MINES FOR SALE, situated
handy for shipment on the coast in NORWAY. Contracts for delivery of ore,
f.o.b., may be made, and any particulars to be had from—
SCHARTUM SWENSEN AND CO..
Commission Agents, Christiania (Norway)

J. S. MERRY,
ASSAYER AND ANALYTICAL CHEMIST
SWANSEA
SUPPLIES ASSAY OFFICE REQUIREMENTS AND RE-AGENTS.

MANAGER FOR GOLD MINES.

WANTED, an EXPERIENCED MANAGER and GENERAL SUPERINTENDENT to MANAGE SOME GOLD MINES in the Tropics. Must have had practical experience in Gold Mining, and must understand the several departments of Mining, Milling, Reduction and Commercial.

Apply, with copies of testimonials, to "C. C.," care of Messrs. Kensington and Co., 11 and 12, Clement's-lane, Lombard-street, E.C.

THE RICHMOND CONSOLIDATED MINING COMPANY

THE RICHMOND CONSOLIDATED MINING COMPANY (LIMITED).

Capital 54,000 Shares of £5 each.

TWENTY-FIRST DIVIDEND.

Notice is hereby given, that the Directors of this Company have DECLARED a DIVIDEND of SEVEN SHILLINGS AND SIXPENCE FER SHARE, free of income tax, PAYABLE on and after the 10th instant, at the Company's bankers—the Union Bank of London, Princes-street, E.C. And notice is hereby further given, that the Transfer Books of the Company will be closed from 7th to 10th February instant, both days inclusive.—By order of the Board,

Offices, 44, Coleman-street, London, E.C., 3rd February, 1380.

THE FRONTINO AND BOLIVIA (SOUTH AMERICAN) GOLD MINING COMPANY (LIMITED).

Notice is hereby given, that a SPECIAL GENERAL MEETING of the Shareholders of this company will be HELD at the Cannon-street Hotel, Cannon-street, London, on THURSDAY, the 12th day of February next, at Two p.m., for the purpose of passing the subjoined Resolution, or any amendment thereof. By order of the Board,

J. JAMESON TRURAN, Secretary.

184, Gresham House, Old Broad-street, London, E.C.,

27th January, 1880.

COPY OF RESOLUTION.

"That the capital of the company be increased by the issue of 5000 Shares of the company of £2 each."

THE UNITED VAN CONSOLS AND GLYN LEAD AND BARYTES MINING COMPANY (LIMITED).

Notice is hereby given, that at the Meeting of Directors held on the 27th ultimo, it was resolved That the LIST OF APPLICATIONS for PREFERENCE SHARES be CLOSED at 15,000; That the Applications for the Shares prior to 31st December, 1879, having been considered, the Shares were Allotted. It was found that the total was 12,739 only, but that applications subsequent to that date had come in for 1695 Shares, making in all 14,434. It was thereupon resolved That the TIME for Allotment at Par be EXTENDED to Saturday, the 21st February next, that the 1695 Shares above referred to be allotted, and that the remaining 566 Shares be Allotted in order of application.

By order, JAMES COOPER, Secretary.

3, Coleman-street Buildings, E.O., 3 February, 1880.

TESSRS. JAMES SCOTT AND CO., PALMERSTON BUILDINGS, OLD BROAD STREET, LONDON.

CREBOR MINE.—Some weeks since we called attention to this valuable property, and stated shares would go to £12. They were then £3½, and now £11½. We now say they will go over £12. Dividend in a few weeks.

EAST CREBOR.—A very large business has been transacted in the Stock Exchange in these shares this week, and the shares will soon materially advance. Having regard to the prospects here, this is the cheapest share in the market, for at the present price it does not represent by 50 per cent. the cost of the useful work already accomplished. When the Crebor lode is cut (as will be the case) the shares MUST advance. Only six months ago Crebors were about the present price of East Crebors; but are now nearly £12—hence there is a very large margin in East Crebor for a most important rise. The chief shareholders in Crebor are buying East Crebors, and will undoubtedly make money by so doing. Hingston, Bedford United, Morfa Du, Caernarvon Copper, and Prince of Wales will all advance in value, and should be immediately bought.

SPECIAL NOTICE.—One of the best speculations in Copper since the days of Devon Consols will be brought out shortly. The shares, we believe, are taken up without a prospectus being issued. Gentlemen desirous of having an interest in it, will be good enough to send their names, when particulars will be forwarded as soon as the shares are dealt in on the Stock Exchange.

			INVESTMENTS
In the latter part of Jul	y last I	advised	the purchase of—
Carn Brea, at		reit.	Carn Brea£100
Cook's Kitchen	2		Cook's Kitchen 8
Dolcoath	26	E.	Dolcoath
East Pool	93/4	~ ~	East Pool 35
Mellanear	934 334 734	They now stand at market price of—	Mellanear 7
South Frances	734	4.5	South Frances 161/2
Tincroft		m 24	Tincroft 26
West Basset	41/4 63/4 23/4 15	E S	West Basset
West Frances	636	음본	West Frances 23
West Peevor	23%	. 3	West Peevor 10
West Seton	15	50 E	West Seton 70
West Tolgus	18	£	West Tolgus 70
Wheat Peevor	9	-	West Peevor

I venture to suggest a similar rise in some half-dozen other mines within the ensuing six months, founded on their merits.

CHARLES BAWDEN, MINING ENGINEER AND SHAREDEALER,
ST. DAY, SCORRIER, CORNWALL.

C.B. has the advantage of being resident in the heart of the great mining districts of the county.

A UCTION

AND MINING

OFFICES,

Sir,—Having had many years' experience on the Mining Market as a Broker and Share Dealer, I beg to inform you that I have resolved and PLEDGE MYSELF TO DEAL ABSOLUTELY ON COMMISSION, and on COMMISSION ONLY, feeling that the interests of my large "clientelle" can be thus best served.

ONLY, feeing that the Marketter of the favour of your commands, either by letter or wire, shall have prompt and faithful attention. Yours faithfully, JOHN THOMAS. Daily Price Lists where ordered.

Advice given on the best obtainable grounds, though of course, without any responsibility.

Mines inspected and reported on by carefully selected Agents.

CAPTAIN ABSALOM FRANCIS, M.E.,

CWM PRYF COMPANY will be registered with Limited Liability before the 12th February instant ONE THOUSAND SHARES FOR SALE at par, £1.

Lately published, in crown 8vo., price 10s. 6d. cloth, A TREATISE ON COAL, MINE-GASES, AND VENTILATION;
With Copies of RESEARCHES "ON THE GASES ENCLOSED IN COAL," &c.

By J. W. THOMAS, F.O.S.
Fellow of the Institute of Chemistry of Great Britain and Ireland, &c.

London: LONGMANS and Co.

Just published, crown 8vo., with numerous Wood Engravings, 12s. 6d., cloth (postage 7d.),

METALLIFEROUS MINERALS AND MINING, (A Treatise on)

By D. C. DAVIES, F.G.S., Mining Engineer, &c., author of
"A Treatise on Slate and Slate Quarrying."
"Without question the most exhaustive and the most practically useful work
we have seen."—Mining Journal.
"Ayolume which no student of mineralogy should be without."—Colliery CROSBY LOCKWOOD & Co., 7, Stationers' Hall-court, London, E.C

CROSBY LOCKWOOD & Co., 7, Stationers' Hall-court, London, E.C.

Just published, in one large volume, 8vo., with numerous Engravings, price &1 16s.

STEEL: ITS HISTORY, MANUFACTURE, PROPERTIES, AND USES,

By J. S. JEANS, Secretary of the Iron and Steel Institute.

SECTION I. History of Steel: Chap. 1. History of Steel; 2. Early History in England; 3. Progress of Invention; 4. History of Bessemer Process; 5. Siemens-Martin Process; 6. Other Steel-making Processes; 7. Steel in America; 3. Germany; 9, France; 10. Austria; 11. Russia; 12. Sweden; 13. Other Countries.—SECTION II. Manufacture of Steel: Chap. 14. Cementation and other Methods; 15. Manufacture by Bessemer Process; 16. Siemens-Martin Process; 17. Other Methods.—SECTION III. Chemical and Physical Properties of Steel: Chap. 18. Phosphorus in Steel; 19. The Use of Manganese; 20. Spiegeleisen; 21. Sulphur in Steel; 22. Silicon in Steel; 23. Tensile Strength of Steel; 24. Mechanical Teats of Steel; 25. Analysis of Steel.—SECTION IV. Uses of Steel: Chap. 26. Application of Steel to Railway Purposes; 27. To Shipbuilding; 23. To Bridge Bubling: 28. To Gengal Purposes; 28. To Gengal Purposes; 28. To Gengal Purposes; 29. To Gengal Purposes; 20. Gung and Armour Plates; 31. Other ication of Steel to Railway Purposes; 27. I ulding; 29. To General Purposes; 30. Guns Plates: 31. Other

Purposes.

London: E. and F. N. Spon, 46, Charing Cross,

And by order of all Booksellers.

		T. E	AD	0	RE	2 8		
Data	e. Mines.	Ton	. P	rice	per	to	n.	Purchasers.
Tan	81-Foxdale	100		£15	3	0		Panther Lead Co.
Reh	3_Pandora	10		12	11	6		Adam Eyton.
L CO.	5. Caron			12	2	- 6		Weston, Son, and Co.
	-Van			13	15	- 0		Sheldon, Bush, and Co.
	- ditto	80		13	15	0		Mining Co. of Ireland.
	- ditto	40		14	1	6		Adam Eyton.

Berlanga (Silver-Lead).—This company sold on Feb. 5 to Messrs. E. C. Goodhart and Co. 103 tons of small ore, testing 75 per cent. lead, 9 ozs. silver, at 121. 5s., and 6 tons large ore, 78 per cent. lead, 8 ozs. silver, at 121. 18s.

1	Date.	Mines.	BLEN Tons.	Pric	e Di	er to	n.	Purchasers.
1	Jan 31-F	rongoch	100	. & 4	12	6 .		Kenrick and Sons.
1	Feb. 3-F	andora	30	. 3	16	6 .		Crown Zinc Company
ı	5-7	7an	75	. 4	4	0 .		Kenrick and Son.

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Plandegla Mining Company, Limited.

Incorporated under the Companies Acts, 1862 and 1867, whereby the Liability of each Shareholder is Limited to the Amount

CAPITAL £15,000, IN 15,000 SHARES OF £1 EACH. Payable 10s. on Application, and 10s. on Allotment.

DIRECTORS.

WILLIAM ARTHUR, Esq., Holland-road, Kensington.
ALFRED THOMAS, Esq., White House, Southgate.
(Two directors, to be appointed at the first meeting of shareholders, to be added to the above.)

BANKERS-NATIONAL PROVINCIAL BANK OF ENGLAND, London and Mold.

AUDITOR-MR. FRANCIS WOOD, 47, Finsbury Circus, E.C. SECRETARY-MR. ROBERT CUMMING.

OFFICES-10, COLEMAN STREET, LONDON, E.C.

1. The object with which this company has been formed is to purchase and work a valuable mineral property in the parish of Lianarmon-in-Yale, in the counties of Denbigh and Flint, which lies immediately to the south of the Bodidris Mines, and not far from the celebrated Minera group, which has already paid upwards of £500,000 in dividends, and continues in a prosperous state.

2. The property, which is held under grant from Sir William Granville Williams, Bart, at the moderate royalty of 1-12th (to be reduced to 1-15th when steam-power is applied), extends for one mile on the well-known and proved lodes of this rich district, and offers the highest prospects of a successful development as the result of the expenditure of an unusually small amount of capital.

3. The property contains several masterly lodes, two of which have already been partially developed with satisfactory results, and promise to be more than ordinarily productive when the present shafts attain a somewhat greater depth. The company has, in fact, merely to continue the work so far prosecuted, and will thus wholly avoid the expense attendant upon exploratory operations of a preliminary character. The ground is easy for working, and a natural system of drainage to the 80 yard level will save the company that heavy expense on account of pumping machinery, which so seriously diminishes the capital of many new concerns. The work already done, which is considerable, will of course be an important saving to the company, both of time and money.

4. Looking to the bearing of the lodes and to the geological position of the property, it is the opinion of competent judges that the probabilities of a prize in Liandegla are unusually great, and there is little doubt in the minds of the directors that the company will enter the market with sales of ore in time to reap the full benefit of that expected revival of trade which must of necessity bring with it better prices for lead and other metals.

5. Subjoined are the reports of two mining engineers who have

REPORT OF MR. GOODMAN ELLIS, CHIEF SUPERINTENDENT OF NORTH HENDRE MINES,

NOW PRODUCING FROM 200 to 300 TONS OF LEAD PER MONTH.

LLANDEGLA MINE.

In accordance with your request I visited the above mine on the 1st instant. The sett is situated in the parish of Lianarmon-in-Yale, county of Denbigh, joining Bodidris Mines to the south, and lies about three miles to the north-west of the Minera Mines. The property is extensive being about one mine in length, and about three-quarters of a mile in width. There are three east and west lodes running throughout. The distance between the north and middle lode is about 300 yards, and the south lode about 130 yards from middle lode. The position of these lodes is very good, situated as they are in the heart of the limestone formal. yards, and the south fode about 139 yards from middle lode. The position of le lodes is very good, situated as they are in the heart of the limestone forma-with "flat measures" and "shales" to the south-east, which never fail to be butter in the locality.

productive in the locality.

I descended a shaft on the north lode which is 20 yards de-p; 12 yards from surface there is a drift driven east in a very strong lode and some good lead is to be seen both in the back and forebreast of this drivage, and from which a good pile is now on surface. This run of lead ore starts west of the shaft and dips eastward with the stratification, and as it gains depth it is superior both in quantity and ulantly, and they no doubt, when a reasonable depth is attained, it will be

much richer.

South Shaft: This shaft is sunk to a depth of 60 yards, but for the greater part
of the distance in the rock of the country. Levels east and west, however, have

been extended upon the lode, "middle lode" (as I call it) at the depth of about 15 or 20 yards from surface. The lode here is very strong and highly promising, but too shallow to produce much lead at this point. When intersected from the bottom of the shaft you may reasonably expect an improvement.

There is one feature of importance which adds greatly to the value of the property and that is the presence of a "swallow" which will enable you to work to the depth of 80 yards without the aid of pumping machinery.

I am happy to be able to state that, in my opinion, you possess a very good property and one that can be quickly and cheaply developed.—I am your obedient servant.

**World Hendre Mines, Echryster, 12th, 1879.

GOODMAN ELLIS.

North Hendre Mines, February 12th, 1879.

REPORT OF MR. HENRY HOTCHKISS, LOCAL SUPERINTENDENT OF BODIDRIS MINES. Bodidris Mines, near Mold, Jan. 16, 1879.

LLANDEGLA MINES.

LIANDEGIA MINES.

I have made a thorough inspection of this property, both at surface and underground, and find it embraces a large tract of mineral ground containing several valuable lodes, together with a large extent of ground in which is contained the horizontal lead bearing measures, known as the "flat measures," and which in almost all cases have proved extremely rich in this district.

The property lies immediately to the south of the Bodidris Mines, and between them and the celebrated Minera Mines (which latter mines have paid dividends to the extent of upwards of £500,000, and are now very productive and profitable), and in precisely similar stratification of rocks.

There are three known east and west lodes running parallel to each other at an average bearing of 30° south of east and north of west, which is the direction taken by the most productive lodes hitherto worked. Two of these lodes are being worked upon, and the development so far must be considered highly satisfactory.

taken by the most productive lodes hitherto worked. Two of these lodes are being worked upon, and the development so, far must be considered highly satisfactory.

North Lode: Upon this lode a shaft has been sunk a distance of 23 yards, but at the very shallow depth of 12 yards only a very rich course of lead ore was struck, and has been worked upon successfully eastward, and from this some high quality lead has been raised and sold.

This course of lead ore (as all strong bodies do) has taken an easterly dip, and where seen in the bottom of the level the lode is larger and of a finer character than above. The lode in places will produce a ton and upwards of lead per fathom. In order to develope this lode economically, I would recommend that a new engine-shaft be sunk from surface further east to take this run of ore at a depth of 50 or 60 yards, and as the ground is favourable for sinking this would take comparatively short time and little money, and if I am not much mistaken this operation would at once give you a good mine in this part of your property.

South Lode: This lode is running parallel with the last mentioned, at a distance of about 300 yards, and, only that it is larger and wider, is much the same in composition as the other, and in depth, I think, will prove the richer of the two. A good shaft has been sunk (at a considerable cost of money and time) upon this lode to the depth of 30 yards, where a level has been extended east and west, for a distance of 40 yards, and eastward a good run of lead ore has been followed to below the level where the lode has gone down stronger than ever, but in order to develope this effectually the lode must be intersected at a greater depth, and with this in view the shaft has been sunk a further distance of 30 yards perpendicularly, and preparations at this depth are now being made to intersect the lode by means of a short cross-cut north, a few yards driving will accomplish this object, and I think will be the means of making a valuable discovery. With regard to th

Looking at the advantageous geological position of the property, comprising as it does the very best mineral bearing strata, and considering the success already achieved in the development of the lodes at such shallow depths, a practical miner can but come to the conclusion that the chances of a prize are unusually great, and I have no hesitation in predicting a brilliant future for the mine.

I ought to add that the mine is naturally drained by means of a "swallow" to a depth of about 70 or 80 yards; this is a great advantage, inasmuch as it will save the expense of pumping machinery.

H. HOTCHKISS.

in the back of the 70 is being pushed up as fast as can be, by six men, to open out the section of ore ground referred to in my last report as worth 1 ton of lead ore per fathom.—Dressing-Floors: We have cleared out all the debris around the walls of the old wheel-pit, and the masons have commenced, and others are engaged in clearing the culvert to the large revolving plunger, and taking out the causing for remains.

CLEMENTINA.—J. Roberts, W. Sandoe, Feb. 4: Owing to the late severe frost ur wheel was idle for two or three weeks, and consequently the water has been

gaget in decaring the curver to the targe revolving planner, and taking out one crusher for repairs.

CLEMENTINA.—J. Roberts, W. Sandoe, Feb. 4: Owing to the late severe frost our wheel was idle for two or three weeks, and consequently the water has been in the bottom part of the mine; but since the frost has gone our pumping-wheel has got to work and the water forking very well. We expect it will be all out from the roadside shaft to-morrow. The men working in the bottom level at the engine-shaft we put to clear up the sump at the bottom of the 15 fm. level until the water is again cleared out of the mine, when they will again resume their places and another pare of men put to sink this sump in the 15 fo get down on the bottom end. We have sampled this week 10 tons of lead ore.

COMBMARTIN.—T. Harris, T. Comer, Feb. 5: At the 17 we are continuing our cross-cut north-west of Harris's cross-course for the footwall of the lode; we are meeting with veins of quartz and flookan, and we calculate we have, about 9 ft. more to drive to reach the footwall, as seen at the adit level. In the 11 south-east we have a very pretty looking lode from 4 to 5 ft. wide, of quartz, as e.e., with seams and stones of lead throughout the whole width of the lode, which has a most encouraging appearance for a bunch of lead quickly. In the north-west adit end the size of the lode has greatly fallen off, it being at present small, and unpromising in appearance, caused by a floor of hard killas coming down from the back of the level, and disordered the lode for the present, but we think the change is only temporary, as we have met with such changes before in driving this lode, and we hope it will soon improve again.

OWM PRY.—Absolom Francis, Feb. 5: The weather during the past week having been very favourable for surface operations we have taken advantage of it for widening and repairing water-course from the fliver Rheidol on to the tail of water-course, and from thence the laying wooden pipes or launders on to the 40-ft. diameter wheel;

May, and to give one or two dividends of 1s. per share before the close of the present year.

DENEIGHSHIRE CONSOLIDATED.—R. Prince, A. Francis, Feb. 5: Stoping operations in the 56 west continue to produce about the same quantity of lead as previously reported. The 112 main lode east presents a good appearance, and as previously reported. The 112 main lode east presents a good appearance, and selicive we are close to a fresh course of lead. We are busy at the washing-floor, and to-day have solid 5 tons of blue ore and 5 tons of grey, realising 1305, 10s.

D'ERESHY CONSOLS.—J. Roberts, W. Sandoe, Feb. 5: In diving south on the Cobbler's lode the lode is getting more, and showing better signs of productiveness. The end on the Red lode is very much improved, in that lode is more settled, and yielding spots of lead and blende; it is now a kindly lode. The Gorse heading is without any change; a well-defined lode, with an open joint on one side.

ie side.

D'ERESBY MOUNTAIN.—J. Roberts, W. Sandoe, Feb. 4: The lode at bottom

No. 5 continues of equal productiveness to what it has been for the month

but at the Eggair-hir Mine to the east its is fathous wide, and prolices lead and opened on it now along a firms, wide, and still good lead showing towards the corporal proved, worth its features are favourable with us for its proving, equally as rich. Working has been carried on with energy for the week in the old mine with good results. The stope in the back of the 30 has very much improved, worth 1,5 fon of lead per fathoum, and appears to be inspititely ingourned and provided with the control of the table of the stope in the back of the 30 has very much improved, worth 1,5 fon of lead per fathoum, and appears to be inspititely used to be a stope of the back of the 30 has very much improved, worth 1,5 fon of lead per fathoum, and appears to be inspititely into the control of the table of the stope of the back of the stope of the stope of the back of the stope of the stope

wide, composed of capel, quarts, mundic, and a little copper ore. In Our cross-cut north, in the 185 fm. level west, the ground is not quite so favorable for progress. The control of the

of Wales.

EAST LONGSTONE.—H. Harris, Feb. 3: We are pushing on here with a speed, according to instructions. There is a good evidence that we are near the great east and west lode by the efflux of water; the ground is harder for driving but it is of a highly congenial nature for carrying mineral, and looks better that in the western part of this range of mines, where nearly solid lead ore is being raised.

great east and west lode by the efflux of water; the ground is harder for driving but it is of a highly congenial nature for carrying mineral, and looks better that in the western part of this range of mines, where nearly solid lead ore is being raised.

EAST ROMAN GRAVELS.—A. Waters, Feb. 2: The 97, south of boundary shaft, has improved a little since last week; now worth ½ ton per fathom. The 75 south is worth 1½ ton per fathom. The nine pitches throughout the mine are working worth 1½ ton per fathom. Our next sampling at the usual time—weather permitting—will be 25 tons of lead ore and 20 tons blende.

EAST VAN.—W. H. Williams, Feb. 4: The level upon the cross-cat has been driven 24 funs. The lode in the present end looks rather more encouraging, and saw egain cover under the hill we may possibly expect a further improvement. EAST WHEAL BULLER.—W. Tregay, Feb. 5: We are preparing the thing for the shaft on the great gossan lode. The lode is more than 20 ft. wide, as produces considerable quantities of tin. I do not anticipate having to sinkly a a short distance before meeting with copper ore, the district having to sinkly a a short distance before meeting with copper ore, the district having to sinkly a short distance before meeting with copper ore, the district having to sinkly a short distance before meeting with copper ore near the surface, and the grossa of this lode being of the richest description.

EAST WHEAL LOVELL.—R. Quentrall, Feb. 4: We have commerized driving east and west at the bottom of Sevorgan shaft, and as the levels extend up find the lode quite as large and promising as in the shaft, and producing sms fair quality tinstuff. We shall now proceed to erect horse-whim, divide as large and west at the bottom of Sevorgan shaft, and as the levels extend up find the lode about 200 fms. further east, where I find it also highly so quality tinstuff. We shall now proceed to erect horse-whim, divide and case shaft, &c., preparatory to sinking below the level.

FORTESCUE (Stannagwyn).—J. H. James, Fe

with ore per fathom. The lode in the stopes in back of the 95, west of crossent, is worth 102, per fathom. We sampled yesterday (computed) 55 tons of find quality copper ore, and retained about 120 tons of another quality ors for the next sale.

GLASGOW CARADON CONSOLS.—Wm. Taylor, Wm. J. Taylor, Feb. 2: 12 to shaftmen are sinking for and cutting tip-plat at the 102 preparatory to siking below this level. The 102 is driven east on new lode about 9 fms.; it has the same kindly appearance, and worth abbout 122, per fathom, a part of the lose standing to the north; the ground and lode is very favourable. On the north lode at this level we have not yet holed to the winze from the 90, but hope to so in about a fortnight; this will be very important for ventilation. We have out into the lode in the 90 west on morth lode; it has an improved appearance, and worth abbout 102, per fathom. The ground and good stones of ore; we hope to hole to the winze here soon. No change in the 90 cast. This level east on south lode is worth 102, per fathom. The ground in the 90 cross-cut south continues hard; we are pushing this on to the new lose as fast as possible. The stopes and pitches throughout the mine are turning at their usual quantities of ore, varying in value from 102, to 103, per fathom. On next sale of ore is computed 180 tons, which will be sold on the 19th inst. GLENROY.—R. Rowe, Feb. 2: When I forwarded you my report for the general meeting I said that the lode had been cut through and proved by a consecut in the bottom level north, and immediately after I set the men to drive on upon the old course—the hanging part of the lode—and am glad to say we have an improvement; the lode is now yielding good stones of lead, and looking vey much better generally; so far it is not accompanied by any blende, I, therefore, take it that we have yet to meet with that shead, and that shortly we sial come up to a rich lode of lead and blende together. It is fair to expect this most by what we have already in the end, and the blende lo

of little larger than when last reported, and we leave a porti-the cast side, and at present do not know its exact size.

The control of lead and blende seen the creats a little blende coming in by the footwall, and the end

tallittle water for the last few days, and been easier for dil continues to work very well, and is making fair progree

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERLLYN.—John Roberts, Feb. 5: The lode in cutting through behind the No. 2 end is looking very well, and has very much improved since we commenced. The highest part of the stopes are now up to the No. 2 level, and to work them from this level we have a horse of ground standing between the level and the blende part which must be taken away, and I have been thinking whether it might not be better for the time being to commence stoping the bottom of No. 2, clearing down the stuff from the stull as we may require it. The stope on the soft lode is without change. The No. 3 cross-cut is without any change to notice since last week. The valley cross-cut is progressing favourably, but no change to notice in the ground. The dressing is going on regularly.

BEDFORD UNITED.—R. Goldsworthy, Feb. 4: No lode has been taken down since last report, except in the winze sinking in the bottom of the 115 fm. level, and as far as seen it is worth 9t, perfathom. The winze sinking in the bottom of the 127 has been communicated to the rise in the back of the 135 fm. level, which has greatly improved the ventilation in both levels. No other change to notice.

BELL VEAN.—James Bray, Jan. 30: I have bought the fan machine, and as ordered, the pipes, which will be all made this week. We shall commence to fix the same as soon as posible, I should think about Tuesday or Wednesday next. We shall in the machine outside Mitchell's shaft, so that we can command any part of the mine without moving it. I think we have bought a very good machine. We shall put on more men' on Monday. I can assure you the work will go on with all possible speed.

BETTWSY-COLED.—M. H. Whitford, Feb. 4: Setting Report: The 20 to drive

chine. We shall putly on more men, on Monday. I can assure you the work will go on with all possible speed.

BETTWS-Y-GOED.—M. H. Whitford, Feb. 4: Setting Report: The 30 to drive east of flat-rod shaft, as directed, by six men, stent 2 fathoms, at 101, per fathom; the lode is from 2½ to 3 ft. wide, yielding about 15 cwts, of lead per fathom; the lode is from 2½ to 3 ft. wide, yielding about 15 cwts, of lead per fathom; the heak of the 39 fathom level, west of flat-rod shaft, by two men, at 32s. 6d, per fathom the back of the 39 fathom level, west of flat-rod shaft, by two men, at 32s. 6d, per fathom; the lode is yielding 16 cwts, of lead ore per fathom. A stope in back of the 32, east of the flat-rod shaft, by two men, at 32s. 6d, per fathom; the lode is yielding 16 cwts, of lead ore per fathom. A stope in back of lead ore per fathom. To drive the deep adit end east, by four men, at 31. 15s. per fathom; this end has a very promising appearance, water issuing freely, and some good stones of lead; further improvement is daily expected. No. 1 stope, in the back of the deep adit level, east of engine-shaft, by two men, at 28s. per fathom, yielding 5 cwts. of lead ore per fathom. A stope in the back of the deep adit level, east of the engine-shaft, by two men, at 30s. per fathom; the lode is yielding 10 cwts. of lead per fathom. I have put two men to work on the north part of the lode, in the 20, east of the flat-rod shaft; this part will yielding from 13 to 20 cwts. of lead per fathom. Dressing is progressing satisfactorily.

BLAEN CAELAN UNITED.—J. G. Green, Feb. 4: I am glad to say that we have intersected a strong, promising lode in the cross-cut south of the brook; it

t from the

. 2 : The

g new e tak-stone clow. from

the ther. riven This , and hard, tons ; and

the 30, near Vipond's sump, will get behind this and on to the north side of it, where they can work the side and stope the roof. This will leave the south end where they can work the side and stope the roof. This will leave the south end where they can work the side and stope the roof. This will give two partnerships clear to commence either driving or stoping. This will give two partnerships are apresent. The dressing has got to work again, and I expect the carts to day to commence with taking off the ore. We estimate our present stock of dressed to the control of the

sin bawe left the foundry, and I hope to sample a parcel for market on the 14th is possibly and a possibly and in the part that is possibly and the possibly and the part that is possibly and the part that is possibly and the part that is worth 2 tons of biende and 3 to 10 cwts. of lead ores per fathom on the part they are now dearing.

HNOSTON DOWN—T. Richards, Peb. 4: The lode in the deep adit level, elaring.

HNOSTON DOWN—T. Richards, Peb. 4: The lode in the deep adit level, elaring.

HNOSTON DOWN—T. Richards, Peb. 4: The lode in the deep adit level, east of the south cross-cut, is improving, and will now produce about 1 ton of east of the south cross-cut, is improving, and will now produce about 1 ton of east of the south cross-cut, is improving, and will now produce about 1 ton of east of the south cross-cut, is improving, and will now produce about 1 ton of east of the south cross-cut, is improving, and will now produce about 1 ton of east of the south cross-cut, is a south cross-cut, and the product of the salt be locked in the salt be compared to the salt be locked in the salt be compared to the salt be locked in the sa

report shall be forwarded next week. The frost 1 am giad to say has disappeared, and dressing was recommenced on Monday, and we are making good progress towards another sampling.

MORFA DU.—T. Mitchell, Feb. 3: Setting Report: We have set the bottom level to drive south-east, by nine men, the month, or cut the lode, at 4ℓ, per fun. The ground continues arouvable for driving, the men having driven nearly 11 fins. during the past month, and we hope in 6 or 7 fms. more driving to interect the lode.—White Rock Shaft: Here we have set the driving towards the lode to six men, the month, at 3ℓ. per fathom; driven last month 2 fms. 4 ft. The ground is rather stiff for cutting, being mixed up pretty much with small strings of quarts. Some of these strings contain rich yellow copper ore, which are favourable indications.

MOUNT CARBIS.—W. Tregay, Feb. 5: We intend opening Trevena's shaft, on the great flat lode, next week. This is the spot where the rich tinstuff was raised by the tributers until they were driven away by the water. This lode has only been worked for a short distance, to a depth of 10 fathoms from surface, beyond which it is entirely unwrought throughout the length of the sett.

NEW BRONYLOYD.—T. Kemp, Feb. 5: Setting Report: No. 3 Shaft, North Lode: Two men to further extend the 121 end, west of winze, at 160s, per fathom. The part of the lode carried by this drive is principally composed of killas and spar, intermixed with a little lead ore, but not to value; from the general appearance of the lode, as the driving proceeds we may expect an improvement.—Middle Lode: The part of the lode opened on by the 73 end, west of No. 2 cross-cut, has since last report further improved; now worth for the width of level (5 ft.) from 15 to 20 cwts, of ore per fathom, and is looking promising for a further improvement; this bargain is set to four men, at 180s, per fathom. The stope over this level is reset to two men, at 100s, per fathom is looking promising for a further improved to work the following the following th

— Capt. Polkinghorne, Friday, 2.9 P.M.: Telegram: "Lode in shaft yielding inchatone of yellow copper ore; every appearance of becoming a productive lode." NORTH DERESBY MOUNTAIN.—Feb. 4: The lode in No. I adit end is looking the course of lead driven through in the level above. The lode in No. 2 adit end is also improving. There is some good lead showing on the footwall part of the lode.

PANDURA.—H. Nottingham, Feb. 4: Engine-Shaft: We are now progressing with the sinking of the engine-shaft, and expect to be deep enough for fixing barers and cistern by the end of this week. I have no change to report from either of the drivings or stopes this week. Now that the bottom levels are learned of stuff we hope to make better progress. I am glad to say the froat has left us, and we are in full course with the dressing again, and hope we may be able to carry orn without further stoppage. The ore just sold will be sent off emorrow.

able to carry on without further stoppage. The ore just sold will be sent off to-morrow.

PANT-Y-MWYN.—E. Parry, Feb. 5: At the point where we have thurled the rise above the 15, to Modlyn shaft, the lode is worth quite 1 ton of lead ore per fathom. We shall drive on this eastward, where the lode has not yet been opened out. We shall be much disappointed if we do not get good runs of lead ore in this direction when we open it up, and this we shall do as soon as ever we get the new machinery to work. We have a fine lode in the sink and stope below the 15 athou level, east of Griffiths's shaft, 6 ft. wide, on an average, and worth 254, bor on per fathom. Four tributers in the back of the 10 have raised 11 tons, at 553, per long, and others are doing moderately well. We are operating on the aids are many expect according to the statements of the old miners. Measrs, Robey's men are well of the statements of the old miners. Measrs, Robey's men are well of the statements of the old miners. We have beauth half the machinery on the mine, and we hope they will begin to fix to-morrow. We have beautiful weather for surface work, and will push forward as last as possible.

morrow. We have beautiful weather for surface work, and will push losward as fast as possible.

PARYS COPPER CORPORATION.—T. Mitchell, Feb. 3: Setting Report: The 90 south, by eight men, the month at 144, per fathorn. The ground here at present is rather hard, and thelfolde disordered by the presence of some hard patches of chert rock and sulphur. There is still some good copper ore in the bottom of the end, and we are hoping this will improve and work out the hard poor stone as we advance forward. The end to drive east of cross-cut, by four men, at 7c, per fathorn. The lode here consists of peach and prian, accompanied with a Bookan joint and occasional stones of copper-ore; ground moderately accompanied for driving, and on the whole it looks very promising. We have set the two tribute patches to 12 men at the usual prices.

THE MINING JOURNAL

PATHEMATINES AND A CONTROLL OF THE WARD OF THE

THOMAS THOMAS. MINERAL AGENT AND ASSAYER, COPPER ORE YARD, STRAND, SWANSEA

Sales and Purchase of Minerals and Metals arranged. Assays and Analyses carefully conducted. References given.

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(ESTABLISHED 1849.)

The Mining Market: Brices of Metals, Ores, &c.

METAL MARKET-LONDON, FEB. 6, 1880.

	Di Li L	AL MARKET-LONDON, PEB. 0, 1900.
IRON. & s.d. &	s. d.	TIN. & s. d. & s. d
Pig, GMB, f.o.b., Clyde 3 9 3-	-	English, ingot, f.o.b102 0 0-103 0 0
, Scotch, all No. 1 3 12 0-	Minda	, bars ,103 0 0-104 0 0
Bars, Welsh, f.o.b. Wales 8 0 0-	-	" refined104 0 0-105 0 0
" in London . 8 0 0- 8	10 0	Australian 95 10 0- 96 10 0
, Stafford., , 10 0 0-10	10 0	Banca (nom.)
, in Tyne or Tees 8 0 0-8	5 0	Straits 95 10 0- 96 10 0
" Swedish, London12 10 0-13	10 0	COPPER.
Rails, Welsh, at works 8 0 0-	_	
Sheets, Staff., in London11 10 0-12	0.0	Tough cake and ingot. 79 0 0- 80 0 0
Plates, ship, in London .10 0 0-10	10 0	Best selected 81 0 0- 82 0 0
Hoops, Staff.,	_	Sheets and sheathing. 83 0 0-
Nail rods, Staff., in Lon. 9 10 0-	-	Flat Bottoms 86 0 0
STEEL.		Waliaroo 81 0 0- 81 10 0
English, spring 16 0 0-15	0.0	Burra, or P.C.C 80 0 0- 80 10 0
,, cast30 0 0-40	0.0	Other brands 78 0 0- 78 0 0
Swedish, keg15 0 0-		Chili bars, g.o.b 72 10 0
	_	PHOSPHOR BRONZE.
	_	Allows I II III and IV Gree a a
LEAD.	_	Alloys I., II., III., and IV £126 0 0
English, pig, common19 0 0-		,, VI. and VII 142 0 0
" " L.B19 7 6-		" XI., Spl. bearing metal 119 0 0
,, W.B20 0 0-		BRASS.
,, sheet and bar20 10 0-	_	Wire 81/d
pipe20 15 0-		Tubes 914 -914d.
,, red21 0 0-2		Sheets 3¾ -9¼d.
white25 10 0-		Yel, met. sheath. & sheets 614 -714d.
patent shot22 10 0-2	3 10 0	
Spanish	5 15 0	TIN-PLATES.* per box.
NICKEL.		Charcoal, 1st quality 1 18 0- 1 18 (
Metal, per cwt15 0 0-1	5 0 0	,, 2nd quality 1 14 0- 1 15 0
Ore, 10 per cent. per ton.20 0 0-2	5 0 0	Coke, 1st quality 1 12 0
QUICKSILVER.		, 2nd quality 1 11 6
Flasks, 75lbs., war.(nom) 7 5 0-1	7 7 6	Black per ton 17 10 0
SPELTER.		Canada, Staff. or Gla.
Bilesian21 0 0-	_	
English, Swansea21 0 3-	-	Black Taggers, 450 of) and an
Sheet zinc25 0 0-2	5 10 0	Black Taggers, 450 of 30 0 0-
		less for ordinary, 10s non-ten 1 f

the works, 1s. to 1s. 6d. per box less for ordinary; 10s. per ton less for; IX 8s. per box more than IC quoted above, andadd 5s. for each X. latee 2s. per box below tin-plates of similar brands.

taken into account, as that market is important, so far as regards Chill refined ingots, which are stored there at the railway depots. It is satisfactory to at the the prices in the Indian markets are better, and that good orders may be expected as soon as our market becomes more settled. The drop in price affords an opening for consumers to come in and supply themselves on better trums, and many, no doubt, lest the spirit of speculation revives before they have time to effect any contracts. The changes which take place now are rather sudden and somewhat important, and there is no time to be lost in contemplation, for hesitation is fatal. Nothing of a detrimental character is likely to occur, and it is not at all improbable that, as the last charters were full, the next two or three may be light, and they will, doubtless, give a further impetus to the markets. The speculative feeling is only quieted down a little, to be rowned to the speculative feeling is only quieted down a little, to be rowned to the speculative feeling is only quieted down a little, to be rowned to the speculative feeling is only quieted down a little, to be rowned to the rectain of the speculative feeling is only quieted down a little, to be rowned as the color of last week and the beginning of this has not been occasioned by any unsoundness in the position of copper. On the contrary, by the last statistics above referred to the article is in a better position than for a long time past; and those who think, because a slight tull has ensued, that we are going to have a repetition of the old prices, will find themselves grievously mistaken. Such exceptionally low prices were merely taken were the result of bad trade; but, now that there is a good trade and good prospects there is no reason why there should not also be good prices.

Ison.—The Scotch Pig Market on Monday and Tuesday went back, the opening price on the former day being 67s. 3d, declining on the following day to 65s.; but the reduced prices brought in many buyers, and the market

Stock in Connal and Co.'s Glasgow Stores:—
Jan. 30, 1830, 435,538; Christmas, 1879, 415,625; Christmas, 1878, 199,417 tons.

Stock in Connal and Co.'s Glasgow Stores:—
Jan. 30, 1839, 435,363; Christmas, 1879, 415,625; Christmas, 1878, 199,417 tons.
TIN.— During the forepart of this week prices receded down to 93L, cash being accepted for toreign; and buyers who purchased at these figures were extremely fortunate, a much higher price having since been paid. The sudden drop shook, perhaps momentarily, the confidence of some weak and timid holders; but holders have now again become firmer, and prefer holding back rather than making such needless sacrifices. The statistical position of this metal is very satisfactory, the total stock on the 31st all, being 14,924 tons, against 14,833 tons on the 31st of last December and 1437 tons on Jan. 31, 1879. The deliveries are extremely good, for in London and Holland last month they were 1837 tons, against 159 tons in December and 1401 tons in the previous January; and those for the twelve months ending Jan 31, 1880, were 21,101 tons, against 18,453 tons for the previous twelve months. During last January shipments from Australia were 735 tons, and from the Straits only 30 tons.

Lead.—The demand keeps fair, and sellers are very firm in their quotations; but, since our last, prices have not been advanced, and last Friday's quotations stand good to-day.

Speller.—This market remains steady, at about 21L for Silesian and 16L for English Hard, at which figures some few transactions

and 161 for English Hard, at which figures some few transactions

are reported.

Steal.—There is no change in the position of this market; firmer prices are firmly held, and the demand for some kinds continues

animated.

TIN-PLATES are still in good demand, without change in prices.

QUICKSILVER has ruled dul! during the past week. The importers'
price is unchanged at 71. 7s. 6d., but sale from second hands have
been made at less money. In consequence of London being higher
than any other market, there is no export demand.

been made at less money. In consequence of London being higher than any other market, there is no export demand.

Messrs, French and Smith—Copper: Speculation largely favoured this article, and a heavy business was transacted. There was also an increased shipping demand, and smelters have been free buyers of furnace stuff. The charters for first fortnight of January were advised as 1509 tons, with considerable increase of value at Valparaiso. This news imparted great strength to the market here, and Chili Bars advanced to 731. 10s. cash, and to 75t. three months. The news of 4500 tons for the latter fortnight caused some getting out, and values fell to 70t., but this reduction is bringing out buyers, and market closes at 72t. We quote Chili Bars, 72t.; Wallaroo, 82t.; Tough, 73t.; and Manufactured, 84t. Ore and Regulus, 14s. 9d. to 15s. 6d. per unit.—This Owing to a large demand for Tinplates and the starting of new works, tin was in good request, and an advance of 10t, per ton was at one time touched during the month. During the latter fortnight large holdings were quitted, but these were readily taken up for speculation at daily increasing values, the market closing with some irregularity. The most noteworthy features in the statistics are the heavy deliveries, and the return of 600 tons from the Continent evidently removed there on speculative account during last year. This latter fact and the unfavourable statistics for America are the probable causes of a drop of 8t. per ton from the lighest during the past few days. English Tin was advanced to 105t, for ingots. On the 27th uit, the Dutch Trading Company sold 19,973 slabs Banca at 58t, fit to 60½ fit, average 59 ft, equal to about 100t. 10s. here. We quote Foreign, 98t; Banca in Holland, 57t, fit; Billion, 57t, fit; English Ingots, 103t.

Messrs, Henry Rogers, Soxs, and Co.—Copper: The low price of this metal began to attract attract attention in January, consumers and exporters also evidently coming to the conclusion they need wait no longer to cover thei

prised 19,973 slabs, all of which sold at an average of 1001. 10s.

Messre, Pixley and Abell.—Gold—There has been a demand for gold, both bars and coin, during the week, the former for the Continent the latter for South America. There have, consequently, been withdrawals from the Bank to the value of 102,0001. since our last, and the undermentioned arrivals have also been sent away:—13,2701. per Hydaspes, from Yokohama: 42001. per Teheran, from Bombay: 50001. per Dee, from West Indies = 26,4701. The Tamar has taken 173,0002 to Buenos Ayres, and the P. and O. steamer 50,0001. to Harander and and 10,0001. to Bombay.—Silver—There have been but very few transactions to report this week; the only arrival has been 42601. from the Brazils, and the next amount expected, which is by the Pacific steamer, will not be here before the 11th inst. The market has, therefore, kept steady in price, owing to the paucity of supplies, and 520₁₆d. per oz. has been the rate since our last circular. The Pekin takes 60,0001. to India, made up chiefly of last week's arrivals.

CHEMICALS, MINERALS. AND METALS.—Messrs. J. Berger Spence

CHEMICALS, MINERALS, AND METALS.—Messrs. J. Berger Spence and Co. (Jan. 31).—Alum: Loose Lump, 61, 15s.; ground, 71,—Arsenie; Best

white powdered, 10l. 10s.—Bleaching Powder, 7l. 15s.—Borax: Refined English, 45l.—Copperas: Green, 50s.—Copper: Sulphate, 23l. 10s.—Nitrate of Lead, 31l. Albert 10s.—Nitrate of Soda: 19s.—Potash: 1s.—Soda: Cream Gaustic, 11l. 5s.—Sulphate, 22l. 10s.—Nitrate of Soda: 19s.—Potash: 1.5s.—Sulphate, 18l. 10s.—College, 21l. 10s.—Sulphate, 18l. 10s.—Other, 5l. 15s.—Other of Zinc, 22l. 10s.—Nic. 3s.—Maganese: Sulphate, 18l. 15s.—Other, 5l. 15s.—Other of Zinc, 22l. 10s.—Nic. 3s.—Mag.—Umber, 50s.—Copper: Best Ingot, 84l.; second ingot, 33l.—Lead. Best est english, 19l.—Pig-Iron, 62s. 6d.—Spelter: English, 21l. 10s.—Tin, 105l.—Baphtha

The settlement of the last fortnightly account in the MINING SHARE MARKET has continued during the week. General business has not been quite so active, and prices have not in all cases been so well sustained, though many, on the other hand, have had a considerable rise.

siderable rise.

Those mostly dealt in have been Van, Wheal Crebor, East Crebor, Prince of Wales, Polrose, Derwent, South Darren, Carnarvon Copper, Parys Corporation, Wheal Greaville, Herodsfoot, Glenroy, Derog Great [Consols, Bodidris, Bedford, Gawton, Hingston Down, North

Parys Corporation, Wheal Grenville, Herodsfoot, Glenroy, Deon Great Consols, Bodidris, Bedford, Gawton, Hingston Down, North Penstruthal, South Penstruthal, and many others.

TIN.—The smelters this week have reduced the standards for tin ore 3l. per ton. We have before stated that there is as much special lation going on in metallic tin in the London market as there is in shares in the mining market, much of it being upon "time bargains," and any change or fluctuation in price as the result of this speculation seems to be at once taken advantage of by the smelters in Comwall to reduce the price of ore. Probably next week we may see it up again. Carn Brea, after being weaker, leave off better at 104 to 105; Dolcoath, 70 to 75. Wheal Owles, 10 to 12; at the meeting the accounts showed a balance against the mine of 17,852l. The stee of tin on hand was estimated at 400 tons. Retallack, 90 to 100; East Lovell, 3 to 3½; East Pool, 34 to 36; Killifreth, 1 to 1½.

South Condurrow, 13½ to 14; South Frances, 16 to 17; Thicroft, 27 to 28; West Basset, 18 to 19; West Frances, 22 to 24; West Peevor, 10½ to 11; Wheal Agar, 8 to 8½; Wheal Basset, 4 to ½; Wheal Sisters, 30 to 32½; Phœnix, 5¾ to 6½; Polrose, 2½ to 3; Wheal Kitty (St. Agnes), 7 to 7½; West Kitty, 2½ to 3½; Wheal Peevor, 33 to 37; Wheal Grenville, 8½ to 9; Wheal Uny, 5½ to 5½; Blue Hills, 4½ to 5. Wheal Jane, 3½ to 4; at the meeting a call of 1l. per share was made. Cook's Kitchen, 7½ to 8; at the meeting the accomis showed a loss on four months of 702l. 18s. 10s., and a balance against the mine of 2941l. 1s. 8d.; a call of 10s. per share was made. Copper is weaker this week, but a good business has been done in shares. The standard for ore at the Cornish Ticketing, on Thursday, declined 15s. per ton. The average price was 4l. 18s. per ton. Devo Great Consols, 18 to 19; Wheal Crebor, 12½ to to 13½; the lode in

shares. The standard for ore at the Cornish Ticketing, on Thursday, declined 15s. per ton. The average price was 4l. 18s. per ton. Devon Great Consols, 18 to 19; Wheal Crebor, 12\frac{3}{2} to to 13\frac{1}{2}; the lode in the 120 east is worth 100l. per fathom; north part of lode, 60l., stope in back, 80l. The 108 east, on new lode, has improved to 60l per fathom. The stope behind the end 50l. Mellanear, 6\frac{1}{2} to 62l, the sale (497 tons) realised 1875l. West Tolgus, 67\frac{1}{2} to 72\frac{1}{2}; the sale (239 tons) realised 1875l. West Tolgus, 67\frac{1}{2} to 72\frac{1}{2}; the sale (239 tons) realised 1440l. West Seton, 67\frac{1}{2} to 70; the sale here (102 tons) brought 543l. Carnarvon Copper, 1\frac{1}{4} to 1\frac{3}{2}. Princes Wales largely dealt in, and in good demand, at 15s. to 20s. East Caradon, 4\frac{1}{4} to 5\frac{1}{2}; thingston Down, 1\frac{1}{2} to 1\frac{3}{2}; Marke Valley, 2\frac{1}{2} to 3; Morfa Du, 17s. 6d. to 22s. 6d.; Parys Corporation, 29s. to 31s. East Crebor, 1\frac{1}{2} to 1\frac

tive lode. South Penstruthal also in demand, at 1\frac{1}{4}\$ to 1\frac{1}{2}\$. Cathedral, 1\frac{1}{4}\$ to 1\frac{1}{2}\$. LEAD MINES have been in fair demand. Van, 21 to 23; the bottom level is improving. The sale on Thursday, 200 tons of lead and 75 tons of blende, realised 3278\frac{1}{2}\$. Great Laxey, 19 to 20. Glenroy, 20. to 25s.; at the meeting, particulars of which will be found in another column, the accounts showing assets over liabilities of 5099\frac{1}{2}\$\tau\$. Id, together with the directors' report, were unanimously received and adopted. A very fine improvement has taken place in the 108 and north, where there is fine lead embedded in beautiful spar. It was resolved to sink the shaft 20 fms. deeper, and leave to the discretion of the directors the question of boring machinery. Patleye Bidge

resolved to sink the shaft 20 fms. deeper, and leave to the discretion of the directors the question of boring machinery. Pateley Bridge, 15s. to 20s.; the 30 end east, on Rake vein, is improving. The 30 on Fielding's lode, very promising. Roman Gravels, 11½ to 12½; the mine has sampled 200 tons of lead ore. Tankerville, 5½ to 6. South Darren, 3½ to 3½; the 110 east continues worth 2 tons, or nearly 40½ per fathom. The 110 west is improving. The 100 west is worth 30½ per fathom. Derwent, 3½ to 4; the cross-cut to the north lode, in the 93, is being pushed on with vigour with the boring machine and six men, about to be increased to nine. The stopes continue as productive as last week. Aberllyn, 20s. to 30s.; East Van, 2½ to 3; Leadhills, 3½ to 4; Minera, 11 to 12; North D'Ereby, 1 to 1½; Pandora, 17s. 6d. to 22s. 6d.; Pen-yr-Orsedd, 1 to 1½; Van Consols and Glyn, 12s. 6d. to 17s, 6d.; West Assheton, 3 to 3½. West Chiverton, 1 to 1½; a call of 2½ 10s. per share has been made. West Holway, 1 to 1½.

Holway, 1 to 12.

Herodsfoot, 41 to 42; at the meeting on Thursday the accounts showed a cash balance against the mine of 680!. 9s. 7d.; merchants bills, 614!. 12s. 11d.; royalty, 146!. 8s. 10d.: total, 144!. 11s. 4l. Against this, credit is taken for ore sold on the 4th 1423!. 15s., leavest Against this, credit is taken for ore sold on the 4th 1423. I5s, learning liabilities over assets of 17l. 16s. 4d. A call of 5s. per share was made, and a committee authorised to overdraw a bunking account of 500l. D'Eresby Mountain, 30 to 40; this mine has sampled 30 tons of lead ore. Clementina, 1 to 1½; the sampling at this mine is 10 tons of lead ore. Crosswood, 1 to 1½; the grogwinion, 3½ to 3½; Hartington, 1½ to 2; Mawston, 1½ to 2; West Wye Valley, 1½ to 2; Mayston, 1½ to 1½; Frongoch, 4½ to 5; the sale of 100 tons of blende realised 4l. 13s. per ton. Red Rock, 2½ to 2½; the sale of lead, 40 tons, realised 13l. 1s. 6d. per ton. Caron, 2 to 2½; this mine sold 20 tons lead yesterday, at 12l. 2s. 6d. per ton. Gwernymynydd, 5½ to 6.

2½; this mine sold 20 tons lead yesterday, at 12*l*. 2s. 6d. per ton. Gwernymynydd, 5½ to 6.
FOREIGN MINES.—Almada, 15s. to 20s.; Cape Copper, 39 to 41 Chontales, 7s. 6d. to 10s.; Colorado, 2¾ to 3; Don Pedro, 1½ to 1½; Eberhardt and Aurora, 5 to 5½; Flagstaff, 3½ to 3½; Frontine and Bolivia, 2¾ to 3; Nouveau Monde, 1½ to 1½; Last Chance, 14s. to 16s.; New Quebrada, 4½ to 4½; Panulcillo, 5½ to 5½; Port Phillip, 12s. 6d. to 17s. 6d.; Pestarena, 6s. to 8s.; Richmond, 13½ to 13½; St. John Del Rey, 260 to 270; Santa Barbara, 2 to 2½; Ruby, 4½ to 5; Placerville, 2½ to 2½; Blue Tent, 2 to 2½; Canada Gold, 1½ to 1½.

The Market for Mine Shares on the Stock Exchange excited and less satisfactory condition at the beginning of the week, tin mines being adversely affected by the drop in the tin standard, which in the face of the favourable statistics for January was altogether incomprehensible, and other shares declining in sympathy.

On Wednesday, however, there was a complete revival upon it becoming known that the drop was not due to any unfavourable change in the most of the state of the in the metal market, but merely to the circumstance that in the metal market, but merely to the circumstance that both Botallack and Wheal Owles had taken advantage of the present high prices, and slipped their stocked tin, realising in some cases a fraction over 63L per ton. It is thus unlikely that anything more than a temporary depression of the tin standards will be experienced. The decline of 15s. in the copper standard on Thursday is also of so small an amount as scarcely to affect the price per ton of ore. The prices of lead ore are well maintained, and as the latest American advices report 27L at 8t Louis and 28L at New York there would be no feat report 27l. at St. Louis and 28l. at New York there need be no fear for the future. It was intended to make the announcement last week that Wheal Peevor would in the account to be presented this month show a profit of 5000L, but by a clerical error the name of the mine was given as Wheal Crebor, where the profit will be but 3000L. As there was no intention to print Wheal Crebor it is fortunate

the error was no greater.

The Provincial Share Markets generally show considerable tion, and although there was in Cornwall a rather serious fall at the beginning of the week owing to the drop in the tin standards, there was a complete recovery by Thursday and prices are now quite as high as last week. On the Manchester Stock Exchange a consider-able amount of business has been done in Bolckow, Vaughan, Tredegas, Chatterley, and other companies of the same class, and prices are well maintained.

The South-East Wynaad Estates and Gold Mining Company, to the formation of which, with a capital of 100,000%, in shares of 2% each, reference was made in last weeks' Journal, has, it is understood, been favourably received by the public, a large number of shares having already been applied for. The estates are acquired by the company

under favour fully develop payable when now being taking over incidental to ing to the period the caping of the caping spectus will south I steep in the South I tions in the district al and mode The pre found in masterly
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The favourable conditions, the desire of the vendor being to have the property in the desire of the vendor being to have the properties are legally transferred (60,000.), includes the crops payable with the properties are legally transferred (60,000.), includes the crops payable with the properties are legally transferred (60,000.), includes the crops payable with the properties are legally transferred (60,000.), for each of the properties are legally transferred (60,000.), for the properties of the properties. The properties of the properties of the properties. The properties of the properties of the properties of the properties. The properties of the properties of the properties of the properties. The properties of the properties of the properties of the properties of the properties. The properties of the properties. The properties of the properties. The properties of the propertie

Tankerville, 6 to 6\frac{1}{2}, and in demand, owing to the improved prospects of the mine indicated by the agent's report in another column. Mid-Devon, \frac{1}{2} to \frac{1}{6}; a great improvement is reported to have taken place in the workings of this mine at the 80 fm. level during the past few days. The drivages are easier at the eastern end, and more favourable for production of copper, as the hard belt of ground is being cut through; while at the western side of the cross-cut south, on the northern part of the lode, some rich ground has been laid open, rich branches and veins of yellow ore are showing and widening as they are being worked on. A telegram received from the mine this (Friday) afternoon asys:—

No change at 80—yielding good quantities of rich ore. All machinery working well.

brainers and the price of from the mine this (Friday) afternoon says:—
"So change at 80—yielding good quantities of rich ore. All machinery working well."
Missouri Lead, 10 to 11; the directors have this week received advices from the mines dated Jan. 17, saying:—"At a depth of 160 ft. in St. Clair shaft we came to a level running north, where the lode is 12 to 18 in. wide, rich in galena, and will yield 2 tons per fathom. The shaft is now down 170 ft., and if no unforeseen delay occurs the contractor will soon have his work completed, when we will take down all the mineral in former workings and open up new ground. The pump in Master shaft is set, and we are now holsting out the rock which fell into the shaft as it was being cut down. When the shaft is cleaned the working barrel and drawing-lift will be set, and the rock-drills put to work, and everything pushed regularly forward. Lead is now quoted in St. Louis at over 27L per ton, active, exarce, and held higher."

Richmond, 13½ to 14; at their meeting, on Tuesday, the directors declared a dividend of 7s. 6d. per share, free of income tax, payable on Tuesday next. The developments in the mine are most satisfactory; the new chamber (No. 15) discovered in December on the 400, under the Tip-top ground, is opening out well, a large body of good ore is already exposed, and a connection in ore for the whole distance of 330 ft. has been made between this chamber and No. 13 on the 500, and the ore is still making up in the back of No. 15 chamber. Mr. Rickard, in his report of Jan. 7, states that where they have begun to put in timbers in the bottom of No. 15 chamber are opening out well. The furnaces are in good working order. Nos. 1 and 3 melting about 300 tons of Richmond ore per week; No. 4 refinery drosses with low grade Richmond and purchased ores. The refinery was shut down on Dec. 31, the machinery thoroughly overhauled, and restarted the following week. The price of lead has further advanced, the latest quotation in New York being 5% cents per b. (about 28t,

the mines at Eureka Nevada states that the week's run was \$2,000, from \$80 tons of ore. During the week the refinery produced doré bars to the value of \$3,000. The manager's report is published in another column.

Buby's, 4½ to 4½. The usual weekly report has not yet come to hand, but a letegram received at the the office states that the mines are progressing favourably.

Consolidated Mining, 1 to 1½; the directors have adopted the suggestion made in the City Article of the Mining Journal a fortinight since. At the board meeting, on Tuesday, Capt. Frank Drake was, with the concurrence of the Eberhardt and Aurora Mining Company, appointed agent of this company during the driving of the funnel through its ground. His appointment has been notified him by telegaph. This is regarded as a most favourable feature, since it denotes perfect harmony between this company and the Eberhardt and Aurora. Competent parties predict a brilliant future for the concern. A circular has been addressed to the late shareholders in the liquidated South Aurora Company who have not yet exchanged their shares for Consolidated Mining Shares, stating that the news from America regarding the mining property belonging to the Consolidated Mining Company being of a satisfactory character, and considerable transactions taking place in the shares, the directors earnestly call their attention to the necessity of at once exchanging their shares. The directors propose, as soon as the necessary number of shares have been exchanged, to apply to the Stock Faciange for an an official quotation.

Colorado United, 2½ to 3. A correspondent just arrived in London from this mine reports great excitement locally upon the prospects of the property. It is expected, he says, that the output for 1880 will reach \$500,000 of ore, which would mean handsome dividends for the fortunate shareholders, as the concern is reported out of debt, and possesses in Mr. Hamill the best manager in the State.

In Hydraulic or Gold Washing Companies Shares considerably more busines

where, in spite of the severity of the frost, drifting and washing are

where, in spite of the severity of the frost, dritting and washing are being carried on, producing gold returns.

Virneberg Copper, 2 to 2½. Last week's return of ore was 662 centners (over 33 tons), making about 350 tons of high percentage copper ore ready for shipment. The shaft is down nearly to the 160 metre level, and it should very soon intersect the lode; a good discovery here will greatly increase the value of the property. The prospects are considered very good, as the present bottom level was opened in rich ground.

Nouveau Monde, 1½ to 1¾. A correspondent writes—Pending the receipt of reports from Mr. Oxland holders of these shares must be

Nouveau Monde, 1½ to 1¾. A correspondent writes—Pending the receipt of reports from Mr. Oxland holders of these shares must be content to exercise patience. Any fall in price, however, it is remarked produces a number of eager purchasers.

In Lead Mine shares a large amount of business has again been transacted, and the improving prospects of the lead trade will, it is considered, ensure their maintaining at least their present position. Van, 21 to 23; the usual monthly report appears in another column. The mine is looking well, and is improving in the bottom levels. The sale on Thursday, 200 tons of lead and 75 tons blende, realised 3078. Mineral Corporation, 12 to 13; the manager (Feb 4) reports that the stopes remain without change calling for special remark. The frost having entirely gone we are getting on with the dressing operations as fast as possible. The stone-breaker, crusher, and jüggers are working well.

Gwernymynydd, 5½ to 6; it is stated that 50 tons of ore will be again sold next week for the month. The various points of operation are looking the same as when last reported on, the prospects generally being good.

Frongoch, 4½ to 5; the frost having disappeared at last, surface operations have been resumed with great activity, and the ore-dressing machinery is now constantly employed, both day and night. The quantity of ore that has accumulated has become a positive inconvenience, all the floors being crowded in a surprising manner. However, with the new self-acting jüggers, and an abundant supply of water, this will soon be made marketable and disposed of. The appearance of the mine underground is most cheering. Large reserves of or are being discovered, and prospects are stated to be as good as the most sanguine could wish. Grogwindon, 3½ to 4; since the meeting, which was fully reported last week, these shares have been in demand, it being considered that the present returns will enable large dividends to be paid, and which, of course, will be proportionably increased by any further rise in le

piaces continues, it is said, to open out productive, and the intrinsic value of the mine is being steadily increased by the accumulation of large reserves. The appearance of the lodes in the deep adit lead to the belief that some grand discoveries will soon be made in the additional land recently acquired from the Crosswood Company.

Caron, 2 to 2½; a parcel of 20 tons of lead was sold yesterday, a: 12/2s. 8d. per ton, being a considerable advance over previous sale. Now that lead has risen this company is able to return ore from many points which before would not pay, and it will not, it is thought, be long before handsome profits can be made. The latest accounts from the mine report that a good improvement has taken place in the deepest workings.

Red Rock, 2½ to 2½; considerable enquiry is reported in these shares, the belief gaining ground that the mine is now entering on a prosperous career, and that large profits will soon be made if lead keeps up in price. This mine adjoins the Frongoch Mine, and is working on the same lode, from which heavy sales (amounting to about half-a-million sterling) have been made, and from recent discoveries in the part of the mine nearest to the Frongoch property there are indications that large returns will soon be obtained. The mine is stated to be now looking better at any previous period, bidding fair to rival its two prosperous neighbours, Frongoch and Grogwinion.

New Wye Valley, 1 to 1½; this company has been successfully formed, all the shares having been subscribed in a few hours. The new shaft has been commenced, and is making good progress. That the returns of ore will be large may, it is remarked, be easily understood when the value of the lode in the deepen workings is taken into consideration, it being stated that from this point no less than 5 fns. of ground, proving the shans having been made for proving this property a vigorous development, and there is plenty of capital in hand available for the purpose. Several well-known mine managers in the district are s

TRAMWAYS -The closing prices of this evening, as quoted by Mr. W. Abbott, of Tokenhouse-yard, are given in tabular form in the last page of the Journal. Extracts from his usual monthly Circular will be found in another

GAS AND INSURANCE SHARES have, according to this evening's report of Mr. W. L. Webb, of the Stock Exchange and Finch-lane, been freely dealt in, the closing prices being those given in the last page of the Journal.

At Redruth Ticketing, on Thursday, 1031 tons of ore of 7\frac{3}{4} average produce, and containing 80 tons 3 cwts. of fine copper, were sold for 5060l. 19s. 6d., being 4l. 18s. per ton of ore; 12s. 7\frac{1}{2}d. per unit, or 63l. 3s. per ton of fine copper in the ore, and an average standard of 98l. 10s. Subjoined are the particulars of the two last sales:

Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. Jan. 22... 2019 ... \(\text{L} 105 \) \(\text{9} 0 \) \(\text{64} \) \(\text{.03} \) \(\text{L} 24 \) \(0 \) \(6 \) \(\text{L} 25 \) \(\text{.03} \) \(\text{L} 26 \) \(\text{.03} \) \(\text{L} 27 \) \(\text{.03} \) \(\text{L} 27 \) \(\text{.03} \) \(\text{L} 28 \) \(\text{L} 28 \) \(\text{.03} \) \(\text{L} 28 \) \(\ 15s., and in the price per ton of ore about 1s. 2d.

At Swansea Ticketing, on Tuesday, 1255 tons of ore of 11½ average produce, and containing 139 tons 17½ cwts. of fine copper, were sold for 9651l. 11s., being 7l. 13s. 10d. per ton of ore, 13s. 9½d. per unit, or 69l. 0s. 1d. per ton of fine copper in the ore, and an average standard of 92l. 16s. 6d. for 9 per cent. produce. Subjoined are the particulars of the tree leve selection. of the two last sales:

of the two last sales:—
Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. Jan. 6 2033 £89 5 0 10 £6 9 10 13 9.0d. £64 19 2 , 27 1255 ... 92 16 6 11/4 ... 7 13 10 ... 13 9.1/2 ... 69 0 1 Compared with the last sale, the advance has been in the standard 3l. 11s. 6d, and in the price per ton of ore about 8s. The Betts Cove ore gave a produce of 7 3-16, and sold at 13s. 4d. per unit; Union, produce 8 5-16, per unit 13s. 6d; Bogalho, produce 263, per unit 14s. $9\frac{1}{2}d$.; Copper precipitate, produce 51 3-16, per unit 14s. $3\frac{1}{2}d$. There will be no sale on Feb. 10.

*With this week's Journal a Supplemental Sheet is given, containing Original Correspondence: Colliery Explosions (E.G. Ansell); Colliery Explosions—their Cause and Remedy (V. W. Jones, H. C. Bull); Explosions in Collieries; Pickard, What can I do for you? Kearsley Mine; Underground Hauling; Coloured Carbon Candles for Electric Lamps; Gravitation System of Transit (William Joseph Thompson); New Hand-Power Rock-Drilling Machine (W. Hoffmann); Mining Affairs in Nova Scotia; the Newfoundland Land Company; Yorke Peninsula Mining Company; Cheap Mining Shares—Coplapo; Thornhill Reef Gold Mine; Copper Mines at the Cape; South Australia; Cwm Erfin Mine, Cardiganshire (A. Francis); Successful Mining—Wheal Jewell; Lead Mines; Stocking of Tin (R. Symons); East Roman Gravels Lead Mining Company; Tolldish Mine; East Peevor Mine; Mining—the Gwennap District (C Bawden); Parys Mountain—Rock Drills; South Penstruthal; Wheal Jane; the Griffin Mine; East Peevor Mine; Mining in Cardiganshire; the Llanrwst District; Mining in Llanarmon (J. L. M. Franser); the Roche Felspar Company; Balymena and Larne Rallway. Meetings of Rallway Companies: St. Patrick Lead, Glasgow Caradon Consolidated Copper, Boddris Lead, Almada and Tirito Consolidated Silver; Port Phillip and Colonial Gold, and Victoria (London) Mining Companies. Registration of New Companies. Reports from Cornwall, North and South Staffordshire, North Wales, Salop, and Cardigan, Tyne and Weat, Derbyshire and Yorkshire, and Monmouthshire and South Wales, Foreign Mining and Metallurgy. Australian Mines, &c. With this week's Journal a SUPPLEMENTAL SHEET is given, con

MESSRS. W. DUNN & CO., STOCK & SHARE DEALERS,
3 AND 4, GREAT WINCHESTER STREET BUILDINGS,
LONDON, E.O. ESTABLISHED 1868.
Messrs. W. D. and Co. are prepared to do business in the following shares,
either as Buyers or Sellers, and give the prices at which business could have been
done at 4 w. Friday.

ther as Buyers or Selle one at 4 P.M., Friday.

Buyers, Belli			lers.
	7s. Wheal Sisters £30	£	35
Colorado £ 25% £ 2	% Pestarena 6s.		8s.
Devon Consols 18 19	South Crebor 134		2
Consolidated 1 1	1 Llanrwst 11/2		134
Carnarvon Copper., 1 1	1/4 Bedford United 11/4	***	136
East Van 234 2	Hingston Down 11/2		15%
T-coma 14	Denbighshire 2	40.5	3
Phoenix 6 6	14 West Holway 11/4		136
N. Zeal, Kapanga 36	Men-yr-Orsedd 1		11/4
SPECIAL BUSIN	ESS in PEN-YR-ORSEDD.		

CAPPER PASS AND SON, BRISTOL,

ARE BUYERS OF LEAD ASHES SULPHATE OF LEAD, LEAD \$LAGS,

ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &c. and DROSS or ORES containing COPPER, LEAD, AND ANTIMONY.

HENRY NUTT AND CO., 57, BRISTOL ROAD, BIRMINGHAM

PURCHASERS OF LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, TIN ASHES, TERNE ASHES, AND ALL REFUSE CON-TAINING TIN AND LEAD.

GEO. G. BLACKWELL, 26, CHAPEL STREET, LIVERPOOL,

PURCHASER OF

MANGANESE, ARSENIC, FLUOR-SPAR, WOLFRAM, BLENDE, CALAMINE, CARBONATE and SULPHATE OF BARYTES, ANTIMONY ORE, CHROME ORE, MAGNESITE, EMERY STONE, PUMICE STONE, OCHRES AND UMBERS, CHINA CLAY, LEAD ORE FOR POTTERS, TALC, PHOSPHATE OF LIME, &c.

HENRY WIGGIN AND CO.

(LATE EVANS AND ASKIN),
NICKEL AND COBALT REFINERS, BIRMINGHAM

C. H. WALKER AND CO., MINING AGENTS AND ENGINEER VALPARAISO AND SANTIAGO,

CHILE. JACKSON AND BUTTERFIELD,

ANALYSTS AND ASSAYERS, Assays or Complete Analyses made of Copper, Silver, Lead, Zine, Tin, and her Ores.

ASSAYING TAUGHT. 106, QUEEN VICTORIA STREET, LONDON, E.C.

JOHN TRAGARDH AND CO.,

GOTHENBURG (SWEDEN),

EXPORTERS OF
SWEDISH INGOT COPPER, and IMPORTERS OF MANUFACTURED
OPPER, TIN-PLATES, GALVANISED IRON SHEETS, TIN, and LEAD.

PLENDE MINE ON SALE, ALL or PART. Ore of superior quality. Produce, 50 tons per month. Appliances for hauling and dressing by water power complete.

Address, "A. B.," Lion Hotel, Aberystwith.

REAT RISE IN TIN SHARES.

Wheal Jane. South Frances. Dolcoath.
Wheal Peevor. West Basset. North Busy.
Also, the Shares in Two Mines which are certain to have a good rise.
For particulars, apply to Mr. Woodward, Mining Offices, Truro.

THE RASHLEIGH TIN AND COPPER MINES.
Full particulars respecting this property can be obtained from—
2, Church-court, Clement's-lane, E.C.
T. B. LAWS, Secretary.

Tull particulars respecting this property can be obtained from—
2, Church-court, Clement's-lane, E. C.

STOCKS AND SHARES,
FOREIGN BONDS, TELEGRAPHS, TRAMWAYS, RAILWAYS, AND OTHER LEADING SECURITIES.

MR. JAMES STOCKER, STOCKER, STOCKER,
2, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.
ESTABLISHED 1948.

SPECIAL BUSINESS in the following:—
Almada Consold., 18s.
Carnarvon, 30s.
Chontales, 8s. 6d.
Consolidated, 21s. 3d.
Derwent, 62%.
Derwent, 62%.
East Chiverton Consols.
East Lovell, 62%.
East Chiverton Consols.
East Chervent, 62%.
Spechardt, 65 6s. 3d.
Flagstaff, 62 6s.
Gawton, 40s.

BANKERS: LONDON AND WESTMINSTER. Richmond, £13¾.
Ruby, £4½.
South Crebor.
South Darren.
Sth. Penskruthal, £1s. 6
Tamar.
West Assheton, £3 3s. 6
West Kitty, £3 6s.
Wheal Crebor, £13.
Wheal Jane.
Wheal Grenville, £8¼.
Wheal Uny.

R. W. B. COBB, STOCK AND SHARE DEALER,

29, BISHOPSGATE-STREET, LONDON, E.C.
Business transacted in every description of Stocks and Shares. Fortnightly
accounts opened on receipt of usual cover.

SPECIAL DEALINGS in the following, viz.:—

30 Bedford United.

20 Frongoch.

50 Devon Consols.

20 Herodstoot.

10 Roman Gravels.

50 Devon Consols.

20 Herodstoot.

10 Bowl Darren.

10 Least Van.

10 Marke Valley.

30 East Crebor.

10 Nouveau Monde.

10 Tankerville.

10 Tankerville.

10 Wheal Jewell.

BWLCH UNITED.—One of the finest investments of the day, the shares of which should be secured at once for a great rise in price and dividends.

BANKERS: ALLIANCE BANK (Limited).

BANKERS: ALLIANCE BANK (Limited).

M. J. J. REYNOLDS, STOCK AND SHARE DEALER
6, MOORGATE STREET, LONDON, E.C.
J. J. REYNOLDS will SELL—
1 Carn Brea.
5 Copiapo, £15.
10 East Crebor, £1 7s. 6d
5 Devon Consols, £19.
5 Leadhills, £4.
5 Mellanear, £6½.
5 Bouth Crebor.
1 Dolcoath.
And has Special Business in Wheal Kitty and West Kitty.
The increasing favour for Mining as an investment has caused J. J. R. to select three or four mines which possess the strongest claim on public confidence.
These consist, first, of proved lodes and strata; second, abundance of capital subscribed; third, proved mining knowledge and honesty to rapidly and properly apply the same capita.
The following shares will repay any investor:—Herodsfoot, £4½ to £4½; Port Nigel, £2½ to £2½; Wheal Jewell, £1 to £1½; South Penstruthal, 15s. to 17s.6d.;
Wheal Agar, £8½.
Enquiries by letter or telegram will have immediate attention.

M E S S R S . E K I N S A N D

STOCK AND SHARE DEALERS,

14, QUEEN VICTORIA STREET, LONDON, E.C.
BANKERS: ROYAL EXCHANGE,

SPECIAL DEALINGS for cash, exchange, or account.

MR. W. TREGAY, MINING ENGINEER, REDRUTH, having had long experience in all classes of Metallic Mines, is open to INSPECT, ADVISE, and REPORT on any MINING PROPERTY at home or abroad. All business communications promptly attended to.

MR. JOHN RISLEY, STOCK AND SHARE BROKER, 38, CORNHILL, LONDON E.C. ESTABLISHED 1658. BANKERS: LONDON AND WESTMINSTER, Lothbury.

BANKERS: LUNDUN AND WESTMINSTER, Lothbury.

Strongly recommends the immediate purchase of POLROSE TIN SHARES. This great property, situated near the Great Wheal Vor and Great Works Mines, is in the centre of a group of the lodes that have given over two millions sterling in dividends; and, according to all reports, a large area of rich tin ground is in Polrose undeveloped, from which great riches will be forthcoming during the present year.

present year.

J. R. strongly recommended WHEAL CREBOR SHARES when they could have been bought at 5s, each about 12 months ago, now the shares are £12¾, £13.

With equal confidence he now recommends Poirose Tin Shares at £3 each.

OW AND REAP."—This Monthly Journal on Mining and Financial Matters will be ready this day, and sent post free for 1½ stamps in application to the Western Mining Exchange, 14, Old Town-street, Plymouth. It contains particulars of the Great Mineral Discovery in Cornwall, articles on the Stock Exchange, and Loan Office Advertisers. Mines, &c.

THE FORTESCUE (STANNAGWYN) NATIVE TIN, COPPER, SILVER AND ARSENIC COMPANY (LIMITED).

The discovery recently made in this mine continues to hold good, and the reserves of ore already laid open are quite equal to £800,000, and the capital of the company paid-up is only £7000. Investors may judge for themselves the probable profits to be derived from working this property, which is as inexpensive as any in Cornwall. The shares are firm, but much under their value at 30s, each, fully paid, which is valuing the mine at only £10,500, the cheapest investment in the county.

Further information or abaves, way be held of Transaction in the control of the county.

in the county.

Further information or shares, may be had of Thompsox and Son, Secretaries, 14, Old Town Street, Plymouth.

Notices to Correspondents.

GOLD IN WALES.—" R. W.," upon sending name and address to S. Farr, 8, Tunnel-road, Liverpool, will receive the information he seeks.—S. FARR.

If Capt. Cock, who was some years ago an agent at East Nant-y-Mwyn Mine, will communicate with Capt. Absalom Francis, of Goginan, Aberystwith, an agency awaits him.

agency awaits him.

Georierd.—" Mercator" (Sunshine)—" T. J. P." (New York)—" R. A." (Sydney)
—" A. D. M.".—" L. T. C."—" George Sparke" (Ashburton)—" O. S." (Bristol)
—" E. D."—" J. P." (Ponterwyd)—" J. S. L.". " Shareholder" (West Feevor)
—" J. D. S."—" H. T." (St. Leonard's)—" F. G. S." (Bath): Should write to
the secretary of the Geologists' Association, University College, who will
readily send the particulars—" T. G. B."—" J. E." (Oldham)—" F. G. S."
(Cork)—" A Shareholder in both Mines"—" W. Tregay" (Redruth)—" A Shareholder " (Truro)—" S. C."

* A great pressure on our space compelled us last week to postpone the publication of many matters intended for insertion. Several of these will appear this week, and others as opportunity offers; but most of them, however, will have to be written again by those who are interested.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, FEBRUARY 7, 1880

EMPLOYERS' LIABILITIES FOR INJURIES.

EMPLOYERS' LIABILITIES FOR INJURIES.

With the opening of Parliament we have presented to us a new Bill to extend and regulate the liability of employers to make compensation for personal injuries suffered by persons in their service. It is a very modest measure as compared with the Bill that is to be again brought forward by Mr. MACDONALD and Mr. BURT, and which proposes to make masters liable for injuries sustained by their servants to the same extent as injuries to third parties. The new measure, which stands every chance of becoming law, will not satisfy the leaders of the mining body, the class in whose behalf a workman's Compensation Bill has been so persistently clamored for. Yet to those who take a dispassionate view of the existing law relating to masters and workmen it will be evident that no fresh legislation is necessary. By the law at present in force a master is always responsible for injuries caused to his servants from personal fault or negligence, so that if from motives of economy or the disregarding of ordinary care and precaution, or in consequence of using defective machinery or employing incompetent workmen an accident takes place, he is responsible for the result; but in the absence of personal fault he is not liable for the carelessness or negligence of his servants, which the member for Stafford contends he ought to be. That is, should a miner open his safety-lamp and an explosion be the result; the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the result the currons in addition to extend the carelessness of the carelessness of the care vants, which the member for Stafford contends he ought to be. That is, should a miner open his safety-lamp and an explosion be the result, the owner, in addition to suffering heavy pecuniary loss in the injury done to his property, would have to give compensation for the loss of life or injury done to the persons he had employed. The new Bill, which is a short one, does not go very much further than the existing law. It provides that—"1. Where after the passing of this Act personal injury, whether resulting in death or not, is caused to a workman by reason of any defect in the works, machinery, plant, or stock used for his employer's business, or the wrongful act, neglect, or default of any person of any superior grade in the service of the employer, whether in the same department of service with the workmen injured or in any other department, or the wrongful act, neglect, men injured or in any other department, or the wrongful act, neglect, or default of any person in the service of the employer, being a person to whose orders or directions the workman injured was bound to conform, or the wrongful act, neglect, or default of any person in the service of the employer, done or committed in obedience to the employer's rules or bye-laws; or in obedience to instructions given by any person to whom the authority of the employer in that behalf was delegated; the workman injured, and in the event of his death the executor or administrator on behalf of his family, shall have the same right of compensation and remedies against his employer as if the workman injured had not been a workman of, nor in the service of, the employer, nor engaged in his work, provided that this section shall not apply where the workman injured materially contributed by his own negligence to the cause of his injury." Such is the first and principal clause, the others relating to the mode of action and the Courts in which they are to be tried. The second clause provides that "Every action by a workman or his executor or administrator for recovery of compensation under this Act, in which a sum not exceeding 2001. is claimed, shall be brought in a County Court, and not elsewhere. Upon the trial of any such action in a County

and not elsewhere. Upon the trial of any such action in a County Court one or more assessor may be appointed for the purpose of ascertaining the amount of the compensation."

Rules as to the appointment and remuneration of the assessors and all matters of procedure may be made and varied from time to time, or repealed in the same manner as rules for regulating the practice and procedure in ordinary actions in County Courts. A measure such as this, as we have before remarked, will not be accepted by the Members for Stafford and Morpeth as representing the miners of the country, who seek for a sweeping change completely subverting the existing law. But why the law should be altered in the interest of the miners, and at the instance of their representatives, is a problem which cannot be easily understood. It is, of course, stated that which cannot be easily understood. It is, of course, stated that mining is a dangerous employment, and that those engaged in it are liable to be suddenly cut off by explosions, falls, and other means name to be suddenly cut off by explosions, falls, and other means unknown to those following other occupations. It is true that nearly 1000 lives are annually lost in the working of coal mines, yet if we take navigation, mining, and railways, mining is by far the safest. In 1877 the total number of persons employed on board merchant ships (sailing and steam) at home and abroad was 216,881, and the number of lives lost was 2042, or 106 persons per life lost, or 0.94 per cent. In 1879 number of lives lost was 2042, or 106 persons per life lost, or 0.94 per cent. In 1873 the number of persons employed on railways and liable to accidents in the United Kingdom was 195,130, and the hable to accidents in the United Kingdom was 195,130, and the number of lives lost was 773, or 252 persons employed per life lost, or 0·39 per cent. In the year 1877 the number of persons employed in and about mines in the United Kingdom was 494,391, and the number of lives lost was 1208, so that there were 409 persons employed per life lost, or 0·245 per cent, and if we take the seven years ending with 1877 the number of persons employed about mines was 445 per life lost. We have it, therefore, that the occupation of a scalar is nearly four times more dangerous, and the nursuit of a rail. sailor is nearly four times more dangerous, and the pursuit of a rail-way servant is more than one and a half times more dangerous than that of a miner, and this would seem to prove that if the pursuit of a miner is exceptionally dangerous the precautions taken by his en ployers for his safety are much more exceptionally perfect. Suc facts as these are not so well known as they ought to be, and we agree e, and we agree with Mr. Bunning, who has taken great pains to make known the state of the law on the Continent with respect to mining, that the getting of coal is not so dangerous an employment as many persons suppose, and that such figures as we have quoted are all the more worthy of attention from the fact that it pleases many persons to attach considerable moral obloquy to those who possess or who are employed in managing mines. But, as we have often pointed out, the ployed in managing mines. deaths in our mines are too o deaths in our mines are too often caused by the men's own negligence or carelessness. More men are killed from falls than from any other cause, and this in most instances is the result of not propping the roof at certain distances, yet according to the views of Mr. MACDONALD and others the employers should be held responsible for the men's negligence. Men employed in mines, it may also be said, are aware of the risk thor run and this element is taken into consideration in of the risk they run, and this element is taken into consideration in fixing the rate of remuneration, the same as in other employments of a dangerous nature, or where great care is necessary to ensure the

safety of the workmen.

As to the liability of workmen and third parties Mr. BUNNING furnishes us with a happy illustration. A seaman at the helm of a ship in a storm does not bring her up sufficiently to meet an unusually high wave, and in consequence the ship receives serious injury to her bows, and two seamen lose their lives. Again, another seaman puts the belm a shade too far over in nearing a public jetty in a heavy tideway, and carries away two or three piles on which

stood several persons, some of whom were injured and some killed. Now, both these accidents were the result of two causes—first, an error of judgment; and, second, the force of the elements. In both lives were lost, yet in the one case the sufferers were engaged for hire in one common and hazardous enterprise, to the carrying out of which to a successful termination they were all bound by the duties of their engagement, which from the nature of things extended their risking their lives for each other, and for the success of the speculation; whereas the other sufferers were simply in the exercise of their right to be on the pier, which they enjoyed in common with all, and had no part whatever in the venture of the ship, could only all, and had no part whatever in the venture of the ship, could only legally undertake, so long as he did so without interference with the rights of others, and in places where he had a right to be, the space occupied by the piles of the jetty being clearly outside of this limitation. Miners, railway servants, and sailors contract to perform certain work, dangerous it may be and requiring great care, for a certain remuneration, and, therefore, cannot expect to receive compensation if they are injured by their own negligence or the negligence of others in the same employ. The employer at present is responsible for injury to his workman for any act of his own or the person representing him, and that we consider is all that can be equitably required, so that further legislation in the same direction is unnecessary, and would impose a serious and unfair burden upon masters from no fault of their own. In most of our mining districts owners have subscribed liberally to funds for the purpose of permanently relieving the sufferers from those sudden fatalities which frequently take place in connection with mining operations, and that is another reason we consider for not disturbing the present relations between masters and workmen by special and class legislation.

AMERICAN LOCOMOTIVE BUILDING.

A pretty good proof—if, indeed, any proof were wanting—of the revival of the American railroad interest is afforded in the fact that the Baldwin Locomotive Works, at Philadelphia—the largest works of the kind we suppose in the United States—made last year 420 locomotives. The corresponding number of engines manufactured in 1878 was 292; in 1877, 185; in 1876, 232: in 1875, 130; in 1874, 162; and in 1873, 437. It will be remembered that in 1873 the American and in 1873, 437. It will be remembered that in 1873 the American railroad interest acquired a feverish—and, as the result proved, an undue—activity. In 1874 a severe reaction set in, and the production of the Baldwin Works experienced, as our figures show, a sharp contraction. There was no recovery in 1875, but matters changed for the worse if anything. In 1876 and 1877 there was, upon the whole, some improvement, and in 1878 this improvement became marked and decided. Last year was a time of prosperity for American railroads, and it was also by consequence a season of activity at the Baldwin Works. The increase in the orders for locomotives at the Baldwin Works in 1879 proceeded principally from American railroad companies, but the works received also orders from South railroad companies, but the works received also orders from South and Central America, as well as from Australia and New Zealand. As regards New Zealand, it may be observed that the traffic on the Christchurch and Inversargill, one of the longest lines yet constructed Christchurch and Inversargill, one of the longest lines yet constructed by the New Zealand Government, is worked almost exclusively with American locomotives, most of them made at the Baldwin Works. American locomotives from their greater flexibility are, perhaps, better adapted for new lines in young countries; that is, for lines the road-bed of which has not been completed with quite so much care as would be brought to bear upon similar road-beds in Great Britain and Europe. Thanks to the ingenious resource of an American engine driver and the flexibility of his engine an American railroad train passes in safety over a line at which an English railway man would very possibly stand quite aghast.

The figures which we have recently given in illustration of the

way man would very possibly stand quite aghast.

The figures which we have recently given in illustration of the course of locomotive building at the Baldwin Works show that American railroads recover with marvellous rapidity not only from depression, but even from ruin. The Northern Pacific Railroad came to grief in the autumn of 1873 and for the remainder of that year, and all through 1874 it was practically a ruined enterprise. But in 1875, 1876, and 1877 the Northern Pacific, having been "reconstructed," began by painful steps and slow to again make some progress. The process of recuperation continued all through 1878, and in 1879 the concern may be said to have been once more in full swing. During the past season the company has laid 60 miles of reach graded 140 miles of readway and provided for the completion. swing. During the past season the company has had of lines of track, graded 140 miles of readway, and provided for the completion of its line to the Yellowstone by Sept. I. The company has re-laid its track from Brainerd to Fargo—138 miles—and its has built nine freight depôts, while private individuals have built grain elevators and store-houses at 16 stations. The company has further added 10 locomotives and 100 cars to its rolling-stock, and it has contracted for 10 more locomotives and 100 cars to be delivered early next private. The company is also this winter increasing its dockage at spring. The company is also this winter increasing its dockage at Duluth, and assisting in the building of a new elevator at the same point. This is how collapse in the United States one year is converted into prosperity and progress a few years later on, and this is how the American locomotive trade becomes so active.

THE LEYCETT COLLIERY EXPLOSION.—The prosecution of the sanager, Robert Stevenson, and William and George Burgess, butties, manager, Robert Stevenson, and Willam and George Burgess, buttles, at the Leycett Colliery, in connection with the explosion there in September last, came to a close at Hanley, on Tuesday. The charges against Stevenson were that he neglected to exercise proper control and supervision over the men, and that he neglected to adequately yentilate the mine, and omitted to render true reports of the state of the ventilation. The prosecution was ordered by the Home Secretary, and the evidence of the Government Inspector of Mines went to show that the working of the pit which had been but lettly opened to show that the working of the pit, which had been but lately opened, had been conducted in a manner which must inevitably lead sooner or later to an explosion. William Burgess had contracted to do the work, and he had disobeyed the orders of the manager, who for ten days before the explosion did not enter the pit. For the defence it was urged that the pit was ordinarily safe and well ventilated; that the explosion was due to extraordinary causes; that the reason of the explosion was due to extraordinary causes; that the reason or Stevenson's absence from the pit was his necessary attendance in another pit where a fire raged, and that he was not required by the Act to descend the mine daily. The charges against George Burgess were dismissed. William Burgess was convicted, but owing to the fact of his lying idle from injuries received in the latest explosion a mitigated fine of 20s. was imposed. Stevenson was convicted on both charges, and fined 5t. and costs in one, and 10s. and costs in the other.

THE MEASURING OF FIRE-DAMP IN MINES.—Several inventions have been made public at various times for indicating the presence of fire-damp in mines, and determining as near as possible the amount. Mr. Ansell invented a remarkably nice and sensitive instrument for detecting gas, and we recollect it was tested in the well-known Oaks Collies, but for all presented provided in the wellknown Oaks Colliery, but for all practical purposes it was considered as not calculated to be of any material advantage in the workings of a mine. Now we have another instrument, invented by Prof. FORBES, of Glasgow, called the Damposcope, which has been devised for the of measuring the quantity of fire-damp in a mine at any time. The instrument is made on the tuning-fork principle. Over the mouth of a straight brass tube is fixed a tuning-fork, having a particular note, suitable to the length of the tube. Inside the tube there slides a second, and, of course, a smaller one, which admits of the lengthening of the tube. By turning a screw the motion of the internal tube backwards and forwards is regulated, and thus records the length of the tube on a dial placed on the stem of the instrument by means of a needle or pointer. By calculation the readings are converted into percentages of fire-damp, and as such are engraved on the dial. All the workman has then to do to see the amount of firedamp in any part of a pit is to take the instrument there, and having set the fork in vibration to turn the screw till the maximum sound is emitted. The dial may then be read by the light of the safety-lamp, or the instrument can be taken to another part of the pit if the workman considers the one he is in is dangerous. The dial can be fitted
with a phosphorescent or self-luminous material, so that the figures
can be seen without a flame or lamp. The instrument is evidently a
most sensitive one, and well calculated to show the amount of gas in
any part of a mine, but we are not aware that any miner would under

any circumstances be at the trouble of obtaining an instru the trouble of botaning an instrume leasure the fire-damp in the place in which he was working afety-lamp he always sees, and by that he knows pretty well h safety-lamp he always sees, and by that he knows pretty well have is circumstanced with respect to air and fire-damp, and it is not like that men would be kept for going into the various places for the perpose of measuring the gas, for it might happen that just as such is been done there would be a heavy discharge of gas from the just as such is been done there would be a heavy discharge of gas from the for accumulations are not always the work of time, but come a rapidly, and without notice. Then there are sudden outbursts from the floor, which fill every place with fire-damp and put out the less of safety-lamps before the men have time to do more than make their escape to the bottom. This we have shown on several occasion to have been the case, and under such circumstances we cannot seed what advantage the Damposcope would be. Miners are generally a tent on getting the minerals for which they are paid, and as they do not always find time to put in sufficient props to secure their on safety they would not be likely to trouble themselves about the gas Mineowners, too, could not be expected to find a staff of men to make the product of the same than the fire down. Mineowners, too, could not be expected to find a staff of men into the various working places to measure the fire-damp. The is vention, however, appears to be a most ingenious one, but we shoul like to know how it could be practically applied without adding to the present heavy cost of working mines.

THE PONSARD STEEL PATENT COMPANY.

There is no longer a question as to the reality of the revival which has been so beneficially experienced in all our national industries during the last six months. The most important factor in this notable improvement has been iron, which has once more asserted itself to be King. Under this generic title, of course, is included steel, which has shown an unprecedented development, and which has been much reduced in price without deterioration of its intrinsic qualities of strength, lightness, flexibility, and durability as to be much may largely employed for old purposes, as well as extensively utilised for new. The home manufacture of steel has been mainly conducted on the well-known Bessemer and Siemens-Martin processes. A new of the second strength of the well-known Bessemer and Siemens-Martin processes. the well-known Bessemer and Siemens-Martin processes. A neward formidable competitor, however, is quietly coming to the front, and will soon try conclusions with its old-established rivals.

will soon try conclusions with its old-established rivals.

M. Ponsard, the inventor of the Converting Furnace bearing his name, is managing director of the Socièté Metallurgique of France, and also of the Ponsard Steel and Iron Works at Creil, near Paris. The exposition of his process made a great impression upon the scientific experts assembled at the late French Exhibition, and he has patented his process for the Continent, England, and America. A technical description of the invention would be out of place here; suffice it to say that it consists of a regenerative gas furnace, the hearth of which is moveable, and contains air tuyeres; that it professes to save a considerable expense of fuel, also of time, for each operation, and consequent wear and tear of the furnace; that the metal while under treatment can be repeatedly tested; and that the operation, and consequent wear and tear of the furnace; that the metal while under treatment can be repeatedly tested; and that the any precise temper of steel required can be obtained, while the Ponsard converting furnace is equally adapted for producing the best qualities of steel from pig-iron alone, or mixed with any proportion of scrap-iron or old rails. The Ponsard furnace can be creeted at much less expense than any other, and of a size capable of producing 20, 30, or even 50 tons at a single operation, which is of great importance in the manufacture of large castings and forgings. Such are some of the advantages which M. Ponsard's process claims over prior methods, for the validity of which it is not our part to vouch, but to bring it under the notice of our readers is quite within our proper functions, especially as the Ponsard Steel Patent Converse.

ur proper functions, especially as the Ponsard Steel Patent Co Climited) has not until now made any appeal to the trade or the general public. The process is adapted to make steel from Cleveland or other phosphoric iron, and it only remains to add that a Possard furnace is by agreement now in course of erection at the Witten Park Works of Messrs. Bolckow, Vaughan, and Company, of Middles borough, who are ever ready to appreciate any sound invention, and whose skill and enterprise layer described value from the part of the process. whose skill and enterprise have deservedly placed them in the van of this great branch of our national industry.

MODERN MECHANISM AND ANCIENT ART.

That the taste of the workman, and, indeed, of all classes of the community, is developed in proportion to the opportunities available for becoming acquainted with the best models previously produced, just as his skill and dexterity in his trade is developed by receiving the best possible instruction from those of greater experience in his craft, is evidenced by all we see around us, and although we are still far from perfection there can be no reasonable doubt that the effects of the last few years to induce our artifage to give increased these of the last few years to induce our artizans to give increased after-tion to technical and art studies have been productive of great advantage both to the workmen themselves and to the industries with which they are connected. The improved taste and judgment displayed in the English exhibits in almost every branch of trade was specially noticed by the most experienced critics at the recent international gathering at Paris, and it was admitted that whilst British manufactures had lost nothing of their strength and solidity, the want of elegance, previously a common cause of complaint, was no longer observable.

It is essential in order that England should maintain that con-

It is essential in order that England should maintain that com mercial pre-eminence to which she aspires that her manufactures should be known in all the markets of the world for the strength and durability which has always characterised them, combined with that perfection of grace and elegance which has been obtained by the for-most nations, whether ancient or modern. For this the art models must be brought to the workman's door, or to be more accurate, facilities must be afforded to every workman to study within the manufacturing centre in which he is located the most celebrated gems of at. Hitherto this has been altogether impracticable, owing to the enomous cost of reproduction with any approach to that accuracy which is essential for the purpose in view. It was, however, demonstrated on Tuesday, at the well-known Maison Marnyhac, in Regent-street, that this heavy cost is no longer necessary, inasmuch as by the aid of an instrument which they are now employing in their stellers there. of an instrument which they are now employing in their ateliers they

or an instrument which they are now employing in their ateliers use can reproduce an absolute facsimile of the most delicate fine at object at a price which leaves nothing to be desired.

The instrument originally invented by Mr. F. Sauvage, and perfected by Messrs. F. de Marnyhac and G. Hubmann, is as simple as it is efficient, consisting of a steel pantograph, mounted on a ball and socket joint, so that it can be turned to every possible angle necessary for reaching the minutest irregularities in the model to be copied. The penelli is replayed by a chief or graver, and the machine is really The pencil is replaced by a chisel or graver, and the machine is read for use, the models being so connected by an automatic arrangement with the mass of plaster, or other material destined to become the copy, that once in position they will retain their position relatively to each other until the work is finished. This automatic arrange ment is, perhaps, the most ingenious in the entire apparatus, since avoids a vast amount of inconvenience in manipulating the pantograph, and permits of absolute accuracy being obtained in back, front, and sides of the model. It need scarcely be stated after this describing the apparatus that augmentations and diminutions from the size of the original can be made with e nal facility, and traordinary accuracy attained cannot be better illustrated than by mentioning that in the reproduction of a plaster cast—the reproduction being about one-tenth the size of the model—even the model lines which had not been smoothed off were as plainly represented

as in the original.

To estimate the extent to which such an invention will be applied To estimate the extent to which such an invention will be appeared is impracticable, since it affords an opportunity for all countries to possess themselves of exact reproductions of the masterpieces of at belonging to other nations—an interchange which will certainly be largely availed of. At first it is intended to employ the invention for the reproduction of some of the hidden treasures of the British Museum, and it is probable that the result in this one case alone will be to call attention to the heautiful to an extent which will be highly be to call attention to the beautiful to an extent which will be highly

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ntury, was permitted to remain in the basement of the Museum rmore than 25 years, in a place so dark that the most interesting sectimens could only be seen by the aid of a lantern, and it was der these unfavourable conditions that some of the finest gems decided by the Maison Marnyhac for reproduction had to be dis-

lected by the Maison Marnyhac for reproduction had to be disvered.
The justice of the demand that these unique specimens of the work
the most successful Greek sculptors should be taken from these
alms of darkness and properly exhibited cannot be doubted, and
alms of darkness and properly exhibited cannot be doubted, and
the state of the invention should be taken from the very
ade. With regard to the reproductions they are from the very
ade. With regard to the reproductions they are from the very
tare of the invention by which they are obtained perfect, and it
turn of the invention by which they are obtained perfect, and it
almost be doubted that they will be generally appreciated wherever
he fine arts are studied. The museums of our colonies and of the
lined States may now possess themselves of works of art absolutely
addistinguishable from the originals at a price merely nominal as
objected with the ordinary and imperfect methods of copying pretionsly adopted, so that the poorest of art students in every country
those who are entirely without the means of paying travelling excenses—may have the advantage of the companionship of the best
models which the world has in any age produced, and thus every
entiment of those around them.

SOUTH STAFFORDSHIRE AND EAST WORCESTERSHIRE INSTITUTE OF MINING ENGINEERS.

The thirteenth annual meeting of members was held in the Mining

INSTITUTE OF MINING ENGINEERS.

The thirteenth annual meeting of members was held in the Mining of the state of the chair), and there was a large attendance. Mr. ALEXANDER is the chair), and there was a large attendance. Mr. ALEXANDER is the chair), and there was a large attendance. Mr. ALEXANDER is the chair), and there was a large attendance. Mr. ALEXANDER is the control of the council meetings, which were confirmed. The report of the council for the last year was then read, as follows:—This is the thirteenth occasion upon which the council have had to make to the state of the council for the last year was then read, as follows:—This is the thirteenth occasion upon which the council have had to make to the state of the council of the council have had to make to the state of the council of the state of the state of the state of the council meetings have been the council meetings have been held during the leaves general meetings and ten council meetings have been been struck off by the council, in accordance with have resigned, and have been struck off by the council, in accordance with have resigned, and have been struck off by the council, in accordance with have resigned, and have been struck off by the council, in accordance with have resigned, and have been struck off by the council, in accordance with have resigned, and have been struck off by the council, in accordance with have resigned and have been struck off by the council, in accordance with have resigned, and have been struck off by the council, in accordance with have resigned, and have been struck off by the council, in accordance with have resigned, and have been struck off by the council was the close of 132. 133, 10d, or 34. 0s. 6d. more, and the bank balance is, consequently, reduced 322. 133, 10d, or 34. 0s. 6d. more, and the bank balance is, consequently, reduced 322. 133, 10d, or 34. 0s. 6d. more, and the bank balance, and the close of 137. The subscriptions is the amount of 574. 5s. 9d. for last with the part of the capital of the lastitu

visit of the Eart of Shreetson, an Bridge,
ng Bridge,
ncil would urgently impress upon you the necessity for renewed efforts
ncil would urgently impress upon you the necessity for renewed efforts
the objects of the Institute by reading papers or bringing forward
interest at the meetings, and any contribution to the Mining Museum
will be particularly acceptable.

BETARY then read the report of the auditors and the balance-sheet for

incers' report showed that Mr. W. J. Hayward was elected President, in Brettell Vice-president, Mr. Richard Latham treasurer, Mr. Alex. retary, and the following gentlemen new members of the councilary Johnson, W. H. Whitehouse, Geo. Jones, C. H. Treglown, Isaiah isher, and J. H. Cooksey.

wing gentlemen were unanimously elected members:—Mr. Joseph un., mining engineer, West Bromwich; Mr. Henry Ernest Hughes, (ineer, Aldridge; Mr. J. H. Pearson, coal and and iron master, Handsd Mr. J. Hull, mechanical engineer, Nuncaton; and the following I:—Mr. Wn. Cookson, Kingswinford; Mr. Alfred James Bulger, Pen-Mr. Charles Clarke, Tipton.

nous vote of thanks was passed to Mr. S. Bailey for the cores from the ing.

"Mr Wm. Cookson, Kingswinford; Mr. Alfred James Bulger, Pendr. Charles Clarke, Tipton.
ous vote of thanks was passed to Mr. S. Bailey for the cores from the group of the core of thanks was passed to Mr. S. Bailey for the cores from the group of the control of the newly-elected who delivered his inaugural address as follows:—
PRESIDENT AND GENTLEMEN,—I thank you most sincerely for the have conferred upon me to-day in electing me your President for the law conferred upon moto-day in electing me your President for the law conferred upon moto-day in electing me your President for the law conferred upon me sidentship I must confess that it was with great reluctance I then e sidentship I must confess that it was with great reluctance I then e sidentship I must confess that it was with great reluctance I then e sollentship I must confess that it was with great reluctance I then e sollentship I must confess that it was with great reluctance I then e sollentship I must confess that it was with great reluctance I then e sollentship I must confess that it was with great reluctance I then e sollentship I must confess that it was with great reluctance I then e sollentship I must confess that it was with great reluctance I then e sollentship I must confess that it was with great reluctance I then e sollentship I must confess that it resolved to incur that responsibility. Well, to-day, gentle it resolved to incur that responsibility. Well, to-day, gentle it resolved to incur that responsibility. Well, to-day, gentle it resolved to incur that responsibility. Well, to-day, gentle it resolved to incur that responsibility. Well, to-day, gentle it resolved to incur that responsibility. Well, to-day, gentle it resolved to incur that responsibility. Well, to-day, gentle it resolved to his present that such as the such as the season of the success which has attended the predecessors—men of the highest position out Inholds among similar scientific bodies in the kingdom. The spirit of age is, however, eminently progressive, particularl

ing his process, and we are continually hearing reports, which may possibly soon be realised, that his efforts have so far succeeded as to ensure the adoption of this wonderful light for a very great variety of useful purposes. I think that we may fairly take credit to ourselves as mining engineers for a readiness to avail ourselves of the discoveries of science, for before Mr. Edison has perfected his discoveries of the discoveries of science, for before Mr. Edison has perfected his discovery M. André (himself a mining engineer) informs us that he has made an electric him with which he can light our mines, and indeed has promised at an electric him with the content to wait for M. André's electric lamp, will to-day eshibit. Parton, not content to wait for M. André's electric lamp, will to-day eshibit to us Dalmain's process for taking captive daylight or any powerful artificial light, and reproducing it at will in our mines or elsewhere. We hear, too, that Herr Koemer (who I presume is a German) has invented a mining lamp, which in its way is also a great novelty. He has discovered that platinum black has the property of condensing on its surface light carburetted hydrogen. He places in a gauze chumber pieces of purplice stone impregnated with platinum black, and as all air for maintaining combustion passes through this chamber all the gas is condensed and rendered harmless before reaching the flame. It would be peemature to pass an opinion upon the efficiency and practicability of any of tiese novel applications of science, but I am sure you join with me in the devout wish that one or all of them may prove to be all we hope, and may conduce to this safe lighting of our mines, and so enable us to reduce the number of calanitous explosions, such as that which so recently startled and horrified us in North Staffordshire. I note that this disastrous explosion took place in the Banbury seam, in which there is usually found a great accumulation of coal dust, plays in explosions, and it will be interesting to know to

is supposed to have contributed to the intensity of this most deplorable accident. Willist on the subject of accidental would remind you that our Government Inspector, by direction of the Secretary of State, has very recently issued a circuit in the contributed of the Government Inspector. The contributed is a body have always displayed an earnest desire to second the efforts of the Government Inspector in reducing the number of accidents, and if would suggest that this circular, inspired by such a high authority as the Home Secretary, should have the earn's acconsideration of our members, will of overwinding now before the public is best calculated to attain the object in view. That we in South Staffordshire are keeping pace with our bettern in newer districts, as a range of the contribute of

THE DEPHOSPHORISATION OF IRON,

The Cleveland Institution of Engineers at Middlesborough on Monday continued the discussion on the dephosphorisation of iron, which engaged so much attention on a former occasion. Mr. S. G. Thomas, of London, the patentee of the process of world-wide renown which is known as the Thomas-Gilchrist process, and which is being applied on a large scale by Messrs. Bolckow, Vaughan, and Co., at Middlesborough, took part in the discussion.

Mr. J. E. Stead (l'attinson and Stead) analytical chemist, first read a paper, supplementing that brought forward by him on Dec

Middlesborough, took part in the discussion.

Mr. J. E. Stead (lattinson and Stead) analytical chemist, first read a paper, supplementing that brought forward by him on Dec. 16 last. He said that since reading that paper he had made several experiments to ascertain the effect of manganese upon phosphate of lime, and also upon phosphate of manganese. Into the bottom of a small basic lined crucible he placed 1½ gramme of phosphate of manganese, and upon the top of this 5 grammes of ferro-manganese, containing 71½ per cent. of manganese. In a second crucible a similar quantity of phosphate of lime was placed, and on the top of it the same quantity of ferro-manganese, which was carefully covered over with more phosphate of lime. Into a third crucible he also placed phosphate of lime, and over it 5 grammes of carburetted iron, containing little or no phosphorus. All these crucibles were placed side by side in a large plumbago crucible, embedded firmly in powdered basic bricks, and after the covers were securely placed they were covered with about one inch more of powdered lime. The lid was then placed upon the crucible, which was impounced into a furnace and heated to whiteness for about an hour. It was then removed, and the fused metallic buttons taken out and subjected to manganese contained 67-6 per cent. of manganese, and an increase of 1 per cent. of phosphorus. That from the crucible which held phosphate of manganese for comparison, had not increased above one-tenth, or 1 per cent. In another experiment, where the crucible was kept in the decarbonised iron, which was treated in a similar manner to ferromanganese for comparison, had not increased above one-tenth, or 1 per cent. In another experiment, where the crucible was kept in the furnace for a greater length of time, it was shown that nearly 5 per cent. Or phosphorus had been gained by the metallic button of ferromanganese. Judging from these results he thought it was very clear that manganese not only powerfully acted upon the phosphoric acid contained in effect upon the phosphoric acid contained in phosphate of lime. He thought that those results went to prove that it was manganese which reduced phosphoric acid from the cinder in the Bessemer converter. The matter deserved more investigation, and what between the results obtained by M. Pourcell and himself (Mr. Stead), he thought that before long he would be able to give a most satisfactory explanation of this phenomen. The fact that manyanese reduced its own tion of this phenomena. The fact that mang reduced its own phosphate showed them that the metal, subjected to the dephosphorising process in which it was the object to remove the phosphorus before the elimination of the carbon, told them directly that it must be as free as possible from that element, for as long as manganese existed in the metal it would have a tendency to reduce any phosphate of manganese or lime produced during the early stages of the blow.

Attention had been drawn to the great desirability of supersaturating the scoria with lime, in order that the life of the linings might be prolonged. Great advantage had, it was stated, been obtained on the Continent by the use of iron containing little or no silicon, and an increased proportion of phosphorus. Several methods had been proposed to bring such iron to the converter. The first was that which was being practically carried out at Hörde, where white iron, containing about 1 per cent. of silicon, was used, together with a sufficient quantity of phosphide of iron, made specially for the purpose of giving the necessary amount of heat in blowing. The second was that which consisted in blowing out the silicon from the metal in a ganister-lined converter, unning off the day, and they transfer in a the disclines.

lised iron at an increased temperature to the coverter lined with basic bricks. This had been carried out at Messrs. Bolckow, Vaughan, and Co.'s steelworks at Eston. The third method was that described by Mr. Warner, in which he proposed to smelt with the Cleveland iron ore a sufficient quantity of the basic slag or phosphoretic material to give an increased proportion of phosphorus in the iron, and to desiliconise this iron with a mixture of soda ash and limestone, which he (Mr. Stead) confessed was the most rapid and complete process of refining that had ever yet been before the public. The desiliconised iron, after leaving the desiliconised converter, was taken to the Bessemer vessel, and there blown in the usual way. There were other methods of purification, one of which was that of Bacon and Thomas, in which oxide of iron and limestone was charged together with pigirion in a cupola furnace, and the whole were melted down together. This method effected a more or less complete removal of silicon, which depended altogether upon the quantity of oxide of iron charged. The question as to which of those processes would ultimately be found most practicable and less costly was one which experience could only answer. Messrs. Krupp have patented a slight modification of this process, and if it was thoroughly successful, the refined iron would be very valuable for puddling processes, but for the Bessemer converter would be almost useless. With reference to an important point, the disposal and utilisation of basic slag, Mr. Stead said that although it tontained between 20 and 40 per cent. of phosphate of lime, the presence of from 5 to 15 per cent. of combined iron made manure manfacturers think that it would not answer to make superphosphate of lime from it. It seemed to him that as a manure it would be most valuable in a raw state, after grinding to a fine powder. The cinder, especially that which was least silicious, was valuable as a means of increasing the proportion of phosphorus in pig-iron where the amount incr ised iron at an increased temperature to the coverter lined with basic valuable in a raw state, after grinding to a fine powder. The cinder, especially that which was least silicious, was valuable as a means of increasing the proportion of phosphorus in pig-iron where the amount naturally was not high enough to give the necessary amount of heat in the converter, and also as a flux for blast furnaces. Excepting the phosphoric acid, slag of such a nature was more valuable than an equal! weight of limestone, for the metallic shots of combined iron would be obtained, and the manganese would probably have an influence in removing sulphur from the metal in the blast furnace, or perhaps, to state the matter more correct, would prevent it from entering into combination with the iron.

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINEOWNERS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

If we could with any degree of certainty answer the queries of "Novice" we should soon be able to make a fortune for ourselves and lay down the pen, And as the questions of our new correspondent are but fair specimens of those we receive almost daily from others, and many of them more experienced, let us briefly notice them, and offer the best advice we can.—1. A "Novice" wants to know what mines are likely to have a certain and quick rise? We only wish we knew for certain.—2. Is it best, he asks, to go into copper, tin, or lead?—3. How long will the present excitement last?—4. Would you buy shares that have already risen, or low-priced and neglected shares?

We think we have said before that so long as metals keep up mines will rise, and when a serious turn in metals takes place mines will

We think we have said before that so long as metals keep up mines will rise, and when a serious turn in metals takes place mines will fall. First, therefore, watch metals. We have also said before that there are two or three things we never advise—1. Do not speculate for a mere rise or fall in market values, which is nothing more nor less than gambling in shares. Never buy what you cannot pay for, and never put money into mines that you cannot afford to lose. Of all speculations it is the most uncertain; it is taken advantage of more than any other occupation to foist off spurious concerns under the name or shadow of a good one, and requires more than usual caution even at the best. At the same time, enormous profits are often made in a short time, and these are best secured by a division more than any other occupation to foist off spurious concerns under the name or shadow of a good one, and requires more than usual caution even at the best. At the same time, enormous profits are often made in a short time, and these are best secured by a division of risks in a properly selected few. Look well to the management of mish, see what working capital there is in hand, and that all liabilities are not only charged up, but discharged. In previous manias for mining the great after-curse was the heavy calls and unknown liabilities falling upon a few. These may now be avoided by having good balances in hand for working purposes, and a determination to allow no debts to accrue. This is the plan we intend to enforce in all mines that we are connected with. So that anyone investing or speculating may, at the worst, know his loss. The young speculations that we have noticed of late have all large balances—Prince of Wales, upwards of 3000l.; Carnarvon Copper, 5000l.; Polrose, 3000l.; and long before these are spent we shall look for a cent. per cent. rise in values. Crebor, which was making calls when we first recommended it, will commence dividends next month. The profit shown will, we expect, be equal to 10s, per share, but we would recommend 7s. 6d. to begin with, and if the mine goes on as at present they may increase to double that amount. It is probable that future meetings may be quarterly, and the shares made into 12,000. They trokers think the division desirable. Parys Corporation has about 5000l. capital in hand, and a large lot of unissued shares. This, therefore, is good, irrespective of the great prospects of the mine.

We would only remark in conclusion that we have always been mark in our estimates, and also as cautious as, under the circumstances, we could be in recommending particular mines. Those who are the division desirable. Parys Corporation has about the money, and we hope they may go on and prosper. But when, and how soon, a reaction may take place, and all become sellers instead of buy

The 73rd section of the Act says—"No dividend shall be payable except out of profits arising from the business of a company." Realised profits as we take it.

We are glad to see that the shareholders in Rookhope will have an opportunity of getting back their money. The "Northern Lead Mining Company," in 10,000 shares of 1L, have purchased the mine for 4600L in fully paid-up shares, and the rest are to be offered at par, first to the old shareholders, and then to the public.

In 1869 Devon Great Consols was in 1024 shares only; it is now in 10,240.

It is a singular circumstance, and one which shows the extraordinary increase in mining business, that during the settlement last week it was impossible for some time to get stamps for transfers. On Friday every stationer's office we applied to had been cleared out, and we were unable to deliver a large amount of stock before Monday.

It is no unusual thing now for shares to rise and fall 2l. or 3l. per share in a day, and it is, impossible, therefore, for anyone to hit the right time either to buy or sell. We used to deal at net prices of the day, but it is now the net price of the hour.

ing about $\frac{1}{2}$ per cent. of silicon, was used, together with a sufficient quantity of phosphide of iron, made specially for the purpose of giving the necessary amount of heat in blowing. The second was that which consisted in blowing out the silicon from the metal in a ganister-lived converter, running off the slag, and then transferring the desilicon-

and the points in operation are valued in the aggregate at 390l. per

We cannot say how long it will take to get the engine up and water out of the Prince of Wales, but hope we shall be raising copper in six months time. The mine has at different times sold several rich parcels of silver, but it is to copper that we look for permanent results.

When East Crebor is "in fork"—that is, when the water is pumped out—a few fathoms will have to be sunk to the point of junction of the Wheal Crebor south lode with the north. Irrespective of this, however, it is expected that ore ground on the old lode will at once become available, and if so shares may have a great rise; but those who buy must be prepared for a 2s. call.

D'Eresby Mountain has sampled 30 tons of lead ore.

Clementina has sampled 10 tons.

We are glad to hear of the discovery in North Penstruthal, as we strongly advised our friends to apply for them at par, and they are now 2½ premium. We hope soon to see as good a rise in South Penstruthal.

The Herodsfoot ore for three months sold for 1426l. 5s. The best parcel, computed 70 tons, realised 17l. 10s. per ton; 30 tons 6l. 12s. 6d.

POLEOSE.—The water will be out of the mine in about a week, and the tin ground explored, and we hope to see the shares 5l. each before long, and upon the merits of the mine alone.

We are glad to see that good lead is coming into the 108 end north at Glenroy. A course of ore here is what we have expected, and may not be far off.

ot be far off.

CARNARYON.—Our agent would have gone to examine the western ground here this week but for illness. We hope he will be able to go in a few days. He is strongly impressed with its great value, and a discovery here might double the value of the property very soon.

MR. WILLIAM H. H. WATSON, DEALER in RAILWAY STOCKS and MINING SHARES at net market prices of

the day.

Address: W. H H. WATSON, 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON, E.C.

SOUND INVESTMENTS.

The great revival which has recently taken place in the Stock Markets, is the best possible evidence that the trade of the country is steadily improving, and that surplus profits are beginning to be invested. There is every prospect of the buoyancy continuing, not-withstanding the fears which many appear to entertain, that because money may become dearer, involving a fall in the price of Consols, therefore Railway and other Stocks should be depressed, as the very

causes which operate to increase the rate of interest, are those which tend to improve securities.

LONDON, CHATHAM, AND DOVER RAILWAY.—The dividend on the Preference Stock at the rate of 4 per cent. per annum, with an amount carried forward sufficient to pay the full 4½ per cent., and leave a surplus of nearly 25,000l., must be a surprise to cent., and leave a surplus of nearly 25,000t, must be a surprise to those sceptics who have refused to believe the many evidences of the steady progress of this Railway. This result has been achieved during a period of unprecedented depression, the hop and fruit crops last autumn having been almost a total failure, and both the Continental and sea-side holiday traffic were greatly reduced, owing to the unfavourable weather. The past half year has also had to bear the burden of the interest upon the Debeuture and Preference Stocks issued in exchange for the Sevenoaks and Maidstone line.

It is just possible that some Preference and Ordinary Share-holders who now see their Stocks quoted at 99½ and 31 respectively, may ask themselves whether the time has not arrived for realizing. I am convinced, however, that the more the position is studied to I am convinced, however, that the more the position is studied, the more satisfied will Shareholders become that they have a property which is likely to continue in the same steady rate of development which has gone on uninterruptedly for so many years. The growth of the Metropolis is an important factor in estimating the value of these Stocks. The Metropolitan and Suburban lines represent no less than 20 miles of the entire system, upon which there are 20 stations, and the fact cannot be too often reiterated, that whereas the Metropolitan and Metropolitan District Railways had to cut their way through densely populated districts, at a cost of 1,000,000l. per mile, which at the time was considered fabulous, the London, Chatham, and Dover was originally constructed through more sparsely inhabited localities, but which year by year are being built over with a rapidity which is positively amazing.

While this great development of the local traffic is taking place expertiting is being done to stimulate increased business on the

While this great development of the local trainc is taking place everything is being done to stimulate increased business on the main line. The growing popularity of the Queenborough and Flushing route to the Continent, the widening of the line to Bickley, the opening at an early date of the Deal and Dover section, and the establishment of the New Central Fruit and Vegetable Market in the heart of the City of Loudon in connection with this Line are all indicative of improgramments which may be anticipated. Being in the heart of the City of London in connection with this Line are all indicative of improvements which may be anticipated. Being in direct communication with the Great Northern and Midland Railways, the benefits of the through working are so manifestly advantageous to both that it is more than probable the rumours as to a more intimate alliance with one of them may become a reality. At the present price of 99½ (including 2 per cent. dividend) the Preference Stock will attract those investors who seek a good 4 per cent. Security, which is likely soon to receive 4½ per cent.; while the Ordinary Stock at 31 will commend itself to those who buy non-dividend paying Stocks to lock up.

Ordinary Stock at 31 will commend itself to those who buy nondividend paying Stocks to lock up.

GRAND TRUNK RAILWAY OF CANADA.—At last the extension to Chicago is completed, thus shortening the distance from
New York as compared with the route vi4 the New York Central
and Lake Shore lines by nearly 40 miles. In a few weeks when the
traffic has had time to develop, I have not the slightest doubt that
abundant evidence will be afforded of the value of this new feeder
to the parent system. Trade in America is so very active that
there must be ample traffic at good paying rates for all the Railmans converging non such a business centre as Chicago. It is a ways converging upon such a business centre as Chicago. It is a feature that large purchases of the Ordinary and Third Preference Stocks have recently been made on behalf of American and Canadian capitalists, who, no doubt, are quick to discern the new career of prosperity dawning.

The refusal of the Directors to accept my offer for the unissued Ordinary Capital of 2,500,000/Lindicates that the Company have

Ordinary Capital of 2,500,000l. indicates that the Company have ample cash resources, and that they can afford to wait just as well as Transatlantic capitalists. The profits secured by those American buyers of the long-neglected Erie and Atlantic and Great Western Stocks, who are now said to be purchasing Grand Trunk Securities, are shown by the following figures, comparing the quotations of

year ago with the present date :-	Prio	es Jon 1879	Present prices.
Erie 1st Mortgage		901	122
Erie 2nd do		694	93
Erie Preference Shares		32	75
Erie Ordinary do		193	50
Atlantic and Great Western	1st		
Mortgage		23	72
Atlantic and Great Western 2	2nd		
Mortgage		. 8	351
Atlantic and Great Western Pre			
rence Stock		No value	12
Atlantic and Great Western Comp			
(Ordinary) Stock		No value	. 12
A careful analysis of the figures of	the	past half ye	ear's working
demonstrates that there will be an a	vaila	ble balance	sufficient to

pay the whole of the first Preference interest in full and to leave a pay the whole of the first Preference interest in full and to leave a surplus; and if such a result has been attained before the opening of the Chicago Extension, it is not too much to expect that the remaining stocks not yet earning a dividend will be those for which there will be the most spirited competition. Among the many favourable points in connection with the future, there is one which is not generally considered, viz.:—that the interest on the Bonds held in the Chicago Line is sufficient of itself to pay 1½ per cent on the First Preference Rock. on the First Preference Stock

GRAND TRUNK DEBENTURE STOCK.—Investors who buy Canada Government 5 per Cent. Bonds at 107 seem to overlook the fact that they can buy Grand Trunk 5 per Cent. Debenture Stock at 96½ which ought to be more attractive, as, while its amount is strictly limited and defined, the Dominion Government can make further issues whenever required and, if necessary, at lower prices. The effect of such new creations of Canadian Government Stocks would be to reduce the value of existing Loans, but in the event of the Directors of the Grand Trunk placing the 2,500,000. Ordinary Stock held in reserve for a higher price, the value of all existing descriptions of capital would be enhanced.

MEXICAN RAILWAY COMPANY.—The brilliant success of the new issue of 6 per cent. Debenture Stock to replace Bonds bearing a GRAND TRUNK DEBENTURE STOCK .- Investors who buy

MEXICAN RAILWAY COMPANY.—The brilliant success of the new issue of 6 per cent. Debenture Stock to replace Bonds bearing a higher rate, is a great event in the history of this Company, the amount available for allotment having been applied for more than ten times over. It reflects much credit upon the Directors who have worked so assiduously for many years to bring the Company into its present position. This Debenture Stock is now at 6 premium, at which price the yield to an investor is about 5½ per cent. As the whole of the subvention money will be applied in the redemption of these Bonds by purchase, the Company will have to buy in the market every month on receipt of remittances from the Mexican Government. The effect of these persistent purchases will be to improve the value of the Debentures, and of necessity enhance the price of the Shares. price of the Shares.

No better evidence can be adduced as to the progress of a country than the development of its Railways. In the case of Mexico the traffic receipts show the following extraordinary results:

In 1876 the total was In 1878 do. 578,850 In 1879 do.

ar the Ordinary Shares.

ATLANTIC AND GREAT WESTERN RAILWAY.—The views

expressed in my last month's Circular have been fully confirmed, and hence a rise has been established in all securities of this rail-

and hence a rise has been established in all securities of this failway; its prospects are decidedly brightening.

ATLANTIC, MISSISSIPPI AND OHIO.—The 1st Mortgage Bonds of this Railway at the present price of 114 are remarkably cheap, including, as they do, 31½ per cent. of overdue coupons. On the 1st April, when the next coupon of 3½ per cent. matures, the Receivers will be in a position to pay 5 or 7 per cent. in cash, and the remainder of the coupons will be funded in 1st Mortgage Stock, as in the case of the Eric Railway. On the basis of the quotation of 122 for Eric 1st Mortgage, these bonds would therefore be worth about 163, but even assuming them to be worth only par, the value would be 135, thus giving a great margin of profit to a present inwould be 135, thus giving a great margin of profit to a present investor. The fact that Sir Henry Tyler, the President of the Grand Trunk, is Chairman of the Bondholders' Committee, is a sufficient

guarantee that English interests will be thoroughly protected.

SOUTH INDIAN GOLD MINES.—Since recommending these shares, they have advanced to £2, and although the rise has been shares, they have advanced to £2, and although the rise has been rapid, there seems to be no disposition on the part of subscribers to part with their holdings, merely to secure what is technically called "a quick profit;" on the contrary, the shares are firmly held for investment, and mostly by those who have required some further indication of value than is ordinarily contained in a prospectus. There is not a single point with reference to this property on which the most sceptical cannot obtain satisfactory and full information. The knowledge of its merits induces some who are intimately acquainted with the district to predict that the shares will advance enormously, and that such prices as 5L or 10L may be reached even before mously, and that such prices as 5l. or 10l. may be reached even before the quartz-crushing machinery is at work. Without endorsing any extravagant estimate, I think there is every indication of a great

rise taking place in the shares.

NEUCHATEL ASPHALTE.—The ordinary shares have advanced on revenue of the control of the contr to 1*l.*, and the Preference to 2*l.*, so that those who purchased on my recommendation some few months since, at 4s. 6d. and 10s. re-

spectively, can now realize a very handsome profit on their venture.

TRAMWAYS.—There has been a general advance in these
Securities during the past month, as anticipated in my last Circular. Those who are now contemplating investments may safely select from the following, or distribute the amount equally over them :— Bordeaux, Birkenhead, Liverpool, Provincial, Tramways of Germany, Tramways Union, Wolverhampton, and Tramways and General Works. All the above I know to be sound, and believe

likely to prove progressive.

BORDEAUX TRAMWAYS.—By the end of next month it is expected that about six miles of this Tramway system will be opened in the busiest part of the city. Seeing that the Company is already taking 800l. to 900l. per week on the Omnibus service, the immediate prospect is encouraging. The 10l. fully paid shares are a very chean investment.

a very cheap investment.

LIVERPOOL TRAMWAYS.—The reduced dividend just declared is entirely due to the opposition of a rival Omnibus Company, which has been kept alive in the hope of successfully competing for a lease of the valuable extensions about to be constructed by the Liverpool Corporation. Fortunately for the Shareholders, and aided by their support, I succeeded at the last meeting in carrying the resolutions according the transfer exceptions. by their support, I succeeded at the last meeting in carrying the resolutions accepting the terms of agreement proposed by the Corporation to this Company. Subsequent events have proved that those who sought support under the euphonious title of a "Committee of Local Shareholders," were really the representatives of the "opposition." The Proprietors had, indeed, a narrow escape, and they should bear this in mind for the ensuing meeting, in the event of any overtures being made to them from the same quarter, or from any combination of a similar kind disguised "in questionable shape." My friends are so largely interested, that I shall certainly attend the forthcoming meeting in Liverpool. Meantime the Shareholders ought not to part with their property, no matter what

rumours they may hear from local sources.

BANKS.—The figures contained in my Analysis of the Reports and Balance-Sheets of the Joint Stock Banks of London, just published, will be studied with unusual interest. In nearly every instance there has been a decrease in the net profits, attributable no doubt, to the dulness of trade and the consequent low value of money, but the dividends have been maintained, less amounts having been placed to Reserve than formerly. The most noticeable feature is the marked advance in shares of those Banks who have resolved to register under the new Act as "Limited."

- From Mr. WM. Abbott's Circular for February, 10, Tokenhous

Yard, London, E.C.

GENERAL MARKETS.—Business continues to be very active, the settlement concluded last week being one of the heaviest known for some years. English railways have been particularly buoyant, the a'vance in some cases being important, especially in Sheffield, Midland, London and North-Western, Caledonian, Great Western, and Great Northern, A. The Midland dividend announced this week was very satisfactory, 6½ per cent., against 5½ for the corresponding period of last year; considering the unfavourable weather we have had, the traffic returns this week were favourable. Among Canadian and American securities some descriptions have advanced considerably, such as Oregon and Californian bonds, and Atlantic Mississippi and Ohlo, but Atlantic

Great Western and Grand Trunk securities are somewhat dull. Foreign tota are firm, Egyptian especially being in demand. The funds are steady. Miss still good, Prince of Wales, Polrosso, Carnaryon, Crebor, East Orebor, and the in request.—W. H. H. WATSON, 1, St. Michaelt-adley, Cornhill, E.C. Ornhill, E.C.

WALKHAM VALLEY TIN MINING COMPANY (LIMITED).

Capital £20,000, in 20,000 Shares of £1 each.

First issue 10,000 Shares of £1 each, payable 5s. on application, 5s. on allotment; remainder by instalments of 5s. each at Two and Three Months.

A. J. DUNN, Esq. A. HANBURY, Esq.

M. A. PURCELL, Esq., C.E. T. E. CROCKER, Esq.

BANKERS.

NATIONAL PROVINCIAL BANK OF ENGLAND, Bishopsgale
Street, London, and Plymouth Branch. SECRETARY-J. H. GINDER, Esq. OFFICES-37, WALBROOK, LONDON, E.C.

LOCAL MANAGER.
Capt. WM. PHILLIPS, Downhouse, Whitchurch, Devon

This company is formed for the purpose of working the Walkhan Valley Tin Mine, in the parish of Whitchurch, in the county of Devo. Several rich and valuable tin lodes have been opened upon. Water power is available for all dressing and stamping purposes; this is a exceptionally good feature. The capital of the company is small and a good mine and a rapid rise in tin shares are anticipated. In mining has become again a most profitable undertaking, and there is every probability of shareholders enjoying a long continuance of proposed in the Walkham Valley Tin Mine while the shares can be purchased at par is strongly advised.

Full prospectuses, reports, &c., will be forwarded on application to the Secretary.

LADY BERTHA UNITED COPPER AND TIN MINING COMPANY

(LIMITED).

Incorporated with Limited Liability under the Companies Acts, 1862, 1861, and 1877.

CAPITAL £15,000, IN 15,000 SHARES OF £1 EACH. (Of which 4000, fully paid, are taken by the Vend Deposit payable upon Application 1s. per Share, and upon Allowment 1s. 6d. per Share.

DIRECTORS.

THOMAS EYRE FOAKES, Esq., The Priory, West Moulsey, Surrey (chairman of the Frontino and Bolivia (South American) Gold Mining Company, Limited), Chairman.

JAMES PEARCE, Esq., ironfounder, Tavistock, Devon.

JOHN CARR SHARPE, Esq., Shaftesbury Cottage, Croydon (Chairman of the Metropolitan House Property Investment Company, Limited).

JOHN HUTTON SMITH, Esq., 73, Southampton-street, Camberwell, S.E.

F. PICKFORD, Esq., C.E., 38, Gore-road, Victoria Park, E.

D. LAMBERT, Esq., C.E., M.E., 52, Imperial Buildings, Ludgate Hill, E.C.

Messrs. DINGLEY, PETHEBRIDGE, WHITE, & DINGLEY, Tavistock, Devon; or their London Agents,
THE UNION BANK OF LONDON, Princes-street, E.C.

Mr. H. T. GRAINGER, 5, Austinfriars, London, E.C.

Prospectuses, forms of application for shares, and reports on the property by Captain W. Richards, of East Russell Mine; Captain George Rowe, of Gawton Copper Mine; and Mr. R. Walters, mining surveyor, of Tavistock, and full information, upon application to the Secretary, at the offices of the company.

THE LEASE of a HEMATITE IRON ORE MINE TO BE SOLD, with PLANS, and STOCK of ORE already gotten about 1500 tons. To a party effecting a sale, a commission walk be allowed on terms to be arranged, or the vendor would be willing to enter into an arrangement with a person having capital at disposit to continue working the same

The property is in close proximity to the Hodbarrow Mines, and is of large extent and undeveloped, though a considerable quantity of ore has been gotten where working has been made.

The vendor not being prepared to continue working, will dispose a very moderate terms.

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TO GOLD, SILVER, COPPER, LEAD, ZINC, &c., MINING COMPANIES, LIME, CHARCOAL, COKE, and COAL DUST MANUFACTURERS.

For particulars of the most improved MACHINE for REDUCING the ABOVE to any degree of fineness, also production, power required, and samples, addess to "X.," MINING JOURNAL Office, 25, Fleet-street, London, E.C.

TO CAPITALISTS AND PROMOTERS OF COMPANIES. THE ADVERTISER has valuable SALT, METALLIFEROUS and COAL MINES on the Continent and in this country FOR SALE at LET.

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MESSERS J. TAYLOR AND MINING ENGINEERS AND INSPECTORS, 85, LONDON WALL, LONDON, E.C. Have Agents in England, Scotland, Wales, and on the Con

R. W. TREGELLAS, 19, BISHOPSGATE STREET WITHIN, E.C., in all descriptions of MINING SHARES at close market prices, and is in a position to do business in SANTA BARBARA, PITANGUI, and is in a position to do business in SANTA BARBARA, PITANGUI, and always in a position to do business in SANTA BARBARA, PITA COPIAPO MINES.

The latest reports as to their progress and profits of the different obeseen at his office.

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86, 87, 88, BISHOPSGATE STREET WITHIN.

Wines of the well known brand of the Bodega are sold in dock sample glas by the bottle, dozen, and quarter cask. Champagnes of every noted shipper the bottle and glass. The prices are graduated from the wholesale shipment the single glass. It is this system which has won for the Bodega its great cases, and which has been pointed out at great length both in the Times and of journals.

The premises stand on the historic site of the old Green Dragon, and are the largest in the United Kingdom devoted to the sale of wines wholesale and retail.

"The convivial spirit of the old house still haunts the spot, and refuses to be exercised. . . . It is just the place for a Mining Exchange, and by the silentification irresistible law of fitness it seem already to have been so constituted."—Mining Journal.—"The costness of a private club and the economy of the BODESA BE most happily combined."—Continental Gazette.

Also at 42, Glasshouse-street; 13, Oxford-street; 5 and 8, Bucklersets. The Arches, Ludgate Hill; and 72, Mark-Lane, London.

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TENDERS for the SUPPLY of COAL and KINDLING WOOD for MILITARY SERVICES, for twelve months, from the 1st April, 1880, lilb & RECEIVED until Twelve o'clock noon on THURSDAY, the 19th day of broady, 1880, by the Commissariat Officers in charge of the undermentioned

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Army Contract Department, War Office, Pall Mall, S.W., Feb. 2, 1880.

NEW BRONFLOYD LEAD MINE (LIMITED),

NEW BRONFLOYD LEAD MINE (LIMITED),
Situate near Bow-street Station, Cambrian Railway.

FOR SALE, any part of ONE HUNDRED SHARES, at £3 10s.
per share. £4 12s. per share paid—8s. further liability.
Intending purchasers will do well to visit the mine and see for themselves the pospective advantages offered. The mine is in full working, and large profits are looked for during the year 1380.
Apply to Mr. Janes Lawman, 70, Little Cadogan-place, Belgrave-square, S.W.

FOR SALE,—A COLLIERY and FIRE-BRICK WORKS, situate near LLANELLY, CARMARTHENSHIRE. A going concern in good working order.
For particulars, address "Dexter," MINING JOURNAL Office, 26, leet-street, London.

TOR SALE,—A STEAM COAL COLLIERY AND FIRE BRICK WORKS, near LLANELLY, CARMARTHENSHIRE. Address, "Max," MINING JOURNAL Office, 26, Fleet-street, London.

POR SALE, a FREEHOLD PROPERTY, containing a deposit of GOOD BROWN HEMATITE IRON ORE, which can be mined and addiered into South Wales for about 7s. 6d. per ton.

Apply to PAGEN and Co., Metal and Mineral Brokers. &c., 41, George-street, Plymouth.

POR SALE, a FIRST-CLASS SECOND-HAND 80 in. CORNIGH PUMPING ENGINE, with several 11 ton BOILERS.

Apply, WM. BENNETTS, Roskear, Camborne.

REEHOLD COLLIERY AND ESTATE FOR SALE NEAR SIGNATURE OF STATE FOR SALE NEAR SURFACE LAND, available for building, adjoining the town of Oldbury, six miles from Birmingham—or the PTS and MINERALS would be SOLD SEPARATELY. First-class machinery, plant, and offices, in good working order. There are also on the property valuable BEDS of CLAX and MARK suitable for making Blue Bricks and Tiles. The pits are only 20 yards from the canal basin, and the estate is intersected by the Stour Valley Railway. The Clay and Mark have been proved to a depth of 31 yards, but are believed to exteend much deeper. Apply to Mr. BINTLEY, the Oaks, Brighouse, Xorkshire.

ALUMINOUS HEMATITE ROYALTY. TO MINING CAPITALISTS AND SMELTERS.
A SPLENDID OPPORTUNITY.

ONE THOUSAND ACRES of STRATIFIED MINERAL DEPOSITS. No machinery required, No delay of output. One-and-a-half miles from seaport—Antrim coast.

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ON SALE, EXCELLENT WORKS at CHORLEY
LANCASHIRE, and LLANTRISSANT, SOUTH WALES (recently carried
on by Messg. Baxendale and Heald and Simon Leach), with all necessary
MACHINERY and PLANT, together with LARGE STOCK of STORES and
MATERIALS. May be viewed, or full particulars obtained, on application to Messrs. DAVIES and BEE, Public Accountants, Preston.

A VALUABLE TIN MINE.

A VALUABLE TIN MINE.

10 BE DISPOSED OF, a TIN MINE of unusually good prospects, which was suspended during the late depression. Some materials and buildings are now on the mine. A small outlay in a rotary engine for pumping and stamping would be followed by certain profits for a long period. Apply to Capt. W. H. Bullock, Indian Queens, St. Columb. February 4, 1890.

CUPREOUS PYRITES.

CUPREOUS PYRITES.

10 BE LET, for a limited period, and at a reasonable Royalty, the BUITRON MINE, situate in the Province of Huelva, in the South of Spain, yielding CUPREOUS PYRITES. There are three large Houses for the Officials, besides Blacksmiths' Shop, Carpenters' Shop, Storehouse, and 39 Miners' Houses. A Rallway, 30 miles in length, connects the property with the Port of Huelva. For further particulars, apply to the Secretary of the South Europe Mining Company, 3 Fenchurch-street, London, E.C.

HEMATITE IRON ORE.

HEMATITE IRON ORE.

TO BE LET, BY TENDER, all that VALUABLE BED or SEAM of HEMATITE IRON ORE lying and being under the Estuary of the Buddon, in immediate proximity to (and, in fact, part of) the world-renowned Hodbarrow Hematite Mine, in the Parish of Millom, and County of Cumberland, the property of The Right Honourable the Earl of Londolle. The property has recently been tested by "boring," and the existence of a valuable Mine of Hematite Ore is a certainty.

A plan of the property, journal of the bore-holes, and conditions of letting, may be obtained upon application to R. ALLENDE ROBINSON, Esq., Whitehaven Castle, Whitehaven (who will appoint a person to show the property), and by whom written offers will be received up to and including the lat day of March next.

PIT SINKING, WINDING COAL, PUMPING, &c.

DORTABLE STEAM ENGINE FOR SALE, with two 134-inch cylinders, fitted with link-motion reversing gear, large boiler, with or without road travelling wheels, and winding and pumping gear. Also a double 9½-in. cylinder PORTABLE ENGINE.

A 5½-in. cylinder VERTICAL ENGINE, with winding drum, complete. An 5-in. cylinder VERTICAL HOISTING ENGINE, with winding drum complete. To be seen at—

BARROWS AND STEWART'S WORKS, BANBURY, OXON.

FOR SALE, at NEW PEMBROKE MINE, CORNWALL:—Au excellent 25 in. DRAWING ENGINE and TWO BOILERS.
THREE IRON STAMPS AXLES.
100 fathoms FLAT RODS, 3½ inch.
10 arm CAPSTAN IRON AXLE.
A quantity of ROD PLATES and OTHER MATERIALS,
Apply to Mr. John Polkinghorne, Woedlands, Par Station.

PATENT TRUCK WINCHES, HAULING ENGINES, &c., for Yorked with a Strong, simple, and effective. ad underground purposes. Worked with air or steam.

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NANT-Y-MOCH MINING COMPANY

(LIMITED).

Capital £10,000, in 10,000 Shares of £1 each

Prospectuses and Shares may be obtained on application to Capt A. Francis, M.E., Goginan, Aberystwith; or from Ernest W. S. Murrant, Esq., 8, St. Benét-place, London, E.C.

MR. W. F. STANLEY, MATHEMATICAL INSTRUMENT SCIENCE AND ART DEPARTMENT, ADMIRALTY, &c.
MATHEMATICAL, DEPARTMENT, ADMIRALTY, &c.
MATHEMATICAL, DRAWING, and SURVEYING INSTRUMENTS of every description, of the highest quality and finish, at the most moderate prices.

Price List post free.

ENGINE DIVIDIRY TO THE TRADE.

ADDRESS—GREAT TURNSTILE, HOLBORN, LONDON, W.O.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the NORTH TRESKERBY MINING COMPANY.—TO BE SOLD, under the direction of the Registrar of the said Court, on Wednesday, the 18th day of February instant, at Twelveo'clock at noon, at the NORTH TRESKERBY MINE, in the parish of Saint Agnes, within the said Stannaries, subject to such conditions as shall be then and there produced, all that the INTEREST of the said Company of and in the Leases or Setts under which its mining operations have been carried on, together with the WHOLE of the extensive

MINING PLANT, MACHINERY, MATERIALS, AND EFFECTS

MINING PLANT, MACHINERY, MATERIALS, AND EFFECTS
Belonging to the said Company, and being within and upon the said mine, including, with other effects,
ONE 80 in. cylinder ENGINE, 10 ft. stroke, equal beam, with TWO 10 ton
BOILERS and fittings.
ONE 53 in. cylinder PUMPING ENGINE, 9 ft. 6 in. cylinder, by 8 ft. in the
shaft, with brass-lined air pump and TWO 10-ton BOILERS.
ONE 18 in. WINDING ENGINE, 6 ft. stroke, fly wheel, cage, &c., complete,
ONE 8 ton BOILER, one Crusher with 20 in. Rolls, 16 in. long; ONE 8 ton
NEW BOILER, from Harvey's, 28 ft. long.
The Account House Furniture and numerous other articles and effects in
general use in mines, and full particulars of which may be obtained on application to the Official Liquidator of the said Company, at the Stannaries Court Office,
Truro, and for the inspection of the said Company, at the Stannaries Court Office,
Truro, and for the inspection of the said machinery, &c., to the Bailiff in charge
at the Mine.

HODGE, HOCKIN, AND MARRACK, Truro,

HODGE, HOCKIN, AND MARRACK, Truro, (Solicitors for the Official Liquidator.)
Dated Stannaries Court Office, Truro, this 4th day of February, 1880.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

Stamaries of Cornwail.

In the MATTER of the COMPANIES ACT, 1862, and of the CARGOLL MINING COMPANY.—TENDERS will be RECEIVED by the Official Liquidator of the said Company, to be addressed to him at the Stamaries Court Office, in Truro, until Saturday, the 14th day of February instant, stating the HIGHEST PRICE which will be given for the 20-in. Cylinder DRAWING and PUMPING ENGINE, with Fly-wheel, belonging to the said Company now being within and upon the Cargoil Mine, in the parish of Newlyn East, within the said Stamaries.

The above may be inspected at the Mine, and for further particulars apply to the said Official Liquidator at the Stamaries Court Office aforesaid.

R. M. PAUL, Truro,
Solicitor for the said Official Liquidator.

Dated Stamaries Court Office, Truro, 4th February, 1880.

VALUABLE MINE MACHINERY FOR SALE. M. R. SPRY is instructed TO SELL, BY PUBLIC AUCTION, on Wednesday, 18th February, 1820, at half-past Two o'clock in the afternoon, on Wheal Northwood Mine, in the parish of St. Nort, Cornwall, between two and three miles from Doublebois Station on the Cornwall Railway, and about five miles from Liskeard, the undermentioned VALUABLE MACHINERY, comprising—

VALUABLE MACHINERY, comprising—

A 25 in. cylinder ROTARY ENGINE, with 10 ton boiler; 16 iron stamps axle, with heads, iron lifters, &c.; a 20 ft. water-wheel, 2 ft. breast, with wrought-iron axle and iron ring; and about 50 fms. of 8 in. cast-iron pipes, &c.
Also, a FEW IRON CASTINOS, comprising one 5 in. working barrel, 12 ft. long; one 4 in. windbore; one 4 in. doorpiece; one 5 in. pump; one gudgeon and saddles 5½ in. bearing; one nose plate; one bishop's head; two bridles for bob; two 4 ft. 6 in. sheaves and saddles.

The engine and stamps were quite new when erected not long ago, have done very little work, and are in capital condition.

To view, apply to Mr. Gengee Stronge, at Northwood Farm House, close to the Mine; for further particulars to Mr. RICHARD CLOGG, Liskeard; or to the Auctioneer, Liskeard.—Dated 24th January, 1880.

CARMARTHENSHIRE

TO COLLIERY PROPRIETORS, IRON MERCHANTS, CONTRACTORS, &c. EXTENSIVE SALE OF VALUABLE COLLIERY PLANT AND MACHINERY.

R. JOHN M. LEEDER has been favoured with instructions from Messrs. Mason and ELKINGTON, who are abandoning their Workings, TO SELL, BY PUBLIC AUCTION (without reserve), on Tuesday and Wednesday, February 17th and 18th, 1880, the following

VALUABLE PLANT AND MACHINERY, viz.:—

VALUABLE PLANT AND MACHINERY, viz.:—

FIRST DAY'S SALE.

At CAPEL IFAN COLLIERY, in the Gwendraeth Valley, within half a mile of the village of Pontyberem, ten miles by rail from Burry Port, and five miles by road from Lianelly, Comprising a 12 in. horizontal WINDING ENGINE, 18 in. stroke, with 8 ft. 6 in. fly wheel, crank and shaft and reversing gear, complete; 9 in. horizontal WINDING ENGINE, 14½ in. stroke, wrought iron fly wheel, shaft, and 5 ft. 4 in. fly wheel with reversing gear, complete; 16 in. horizontal WINDING ENGINE, 14½ in. stroke, wrought iron fly wheel, shaft, and 5 ft. 4 in. fly wheel with reversing gear, complete; 16 in. horizontal WINDING ENGINE (made at Millbrook), 3 ft. stroke, slot link, reversing gear, disc crank, pinion 18 in., diving wheel 7 ft. diameter, and wrought iron shaft; drum 8 ft, diameter, 3 ft. 6 in. wide, with wrought iron shaft; all the exhaust pipes to the slack; also 1 spare pinion, drum, curbing, and spanners; 2 egg-end booliers, 3 ft. long and 6 ft. 2 in. diameter and 5 ft. 8 in. diameter respectively, with feed and steam pipes, safety valves, &c.; 12 in. special pump, 24 in. stroke (by Tangye); 6 in. special pump, 12 in. stroke, ditto 8 in. vertical winding or pumping engine, 1 ft. 10 in. stroke, 7 ft. fly wheel, driving wheel 5 ft. diameter, complete; about 100 tons of tram rails, chiefly 14 lbs. and 15 lbs. to the yard; a quantity of cast iron wings and crossings; about 110 iron trams, 1 ft. 11½ in gauge, to carry 15 owts, ; a quantity of incline and flooring plates; weighing machine, size of plate 5 ft. 3 in., to weigh 3 tons; coal screen to make three kinds of coal, lower part of screen 9 ft. by 6 ft., upper part 15 ft. by 6 ft., wrought iron bars, ¾ in. by 3¾ in., sheet iron sides and atoppers, with all the timber, levers, Billy fair-play, &c.; sheet iron coal shoot, 13 ft. by 5 ft. 3 in. portable coal screens; blackamiths' tools; ditto bellows, anvils, vices; wheel-barrows; 180 safety lamps; office furniture, &c.; also the railway siding, comprising about 900 yar

points, crossings, 500 creosoted sleepers, &c., &c.

At POOL COLLIERY, situate one and a half mile from Pembrey and Burry Port Stations, and two miles from Lianelly on the G. W.R., Comprising a Cornish condensing ENGINE (by Harvey and Co., Hayle Foundry), cylinder 70 in. diameter, provided with heasting jacket, stroke 10 ft. in and 9 ft. out, has 3 valves, air pump lined with brass, brass bucket and rod, the beam is of cast iron, length 32 ft., depth at centre 6 ft. 2½ in.; 3 excellent Cornish bollers, 35 ft. and 37 ft. long respectively, 6 ft. 6 in. diameter, tube 4 ft. and 4 ft. on it is and in the stam and feed pipes, safety feed and blow off valves, &c.; a 14 in. horizontal WINDING ENGINE (by Waddle), 3 ft. stroke, with driving wheel and pinlon, wrought iron fly shaft, drum 6 ft. diameter, 4 ft. wide, with reversing slot link gear and throttle valve; 14 in. horizontal ENGINE of same dimensions, with drum 10 ft. diameter, 4 ft. wide, and spare crank; 2 Galloway boilers, 13 ft. long, 6 ft. 6 in. diameter, 2 tubes and 3 small diagonal tubes and water heater combined, stop, safety, and feed valves, steam and feed pipes, complete; weighing machine to weigh 8 tons; pitch pine fit frame; tipping stage and screen, with cornigated galvanised roof; 3 pit pulleys, 8 ft. diameter; about 5 tons of tram rails, 18 lbs. to 30 lbs. to the yard; 48 yards of 9 in. pumps; about 300 yards of 16 in. and 17 in. pumps; pitch pine pump rods; wrought iron pump rod; straps and connections; 18 ln., 20 in., and 21 ln. plungers; stuffing boxes; expansion pipes, clack and match pieces; 3 angle beams, with wrought iron spindle and seat iron pan, 8 ft. diameter; cast iron balance bob, 16 ft. 9 in. by 2 ft. 9 in. wide, 18½ in. deep; ditto 18 ft. 2 in. long, 3 ft. deep, and 21 in. wide, itwo spindle and balance attached; pumping cog wheel, 9 ft. 6 in. by 19 in., with wrought iron spindle and balance attached; pumping cog wheel, 9 ft. 9 in. high with wrought iron spindle and beat on pan, 8 ft. diameter; cast iron balance bob, 16 ft. 9 in.

Sale to commence on the mesons, and the first day at Twelve o clock, and A luncheon will be provided the first day at Twelve o'clock at noon precisely. Sale to commence on the second day at Twelve o'clock at noon precisely. As the lots are numerous, purchasers are particularly requested to be punctual. The Auctioneer can with great confidence say that the whole of the plant is in excellent condition, much of which has not been long in use. The valuable Cornish condensing engine, by Harvey, is in perfect working order, as is also the whole of the other engines and machinery, having been in work up to a very short period.

short period.

Detailed catalogues may be had on application to the Auctioneer, at his offices, Oxford Chambers, Oxford-street, Swansea.

UNION AND CANNOP ENGINE COLLIERY,

TO BE DISPOSED OF, BY PRIVATE CONTRACT, on or before the lat of March next, the above VALUEDED CONTRACT.

the 1st of March next, the above VALUABLE GALE, comprising a surface area of 335 acres, or thereabouts, containing the WHITTINGTON COAL, the COLEFORD HIGH DELF, and the TRENCHARD VEINS.

The celebrated Coleford High Delf is from 5 to 5 ft. 6 in. thick, and have been extensively worked, and with very great success, in the adjoining colliery, and estimated to yield 6000 tons per acre of first-class marketable coal. Whether for steam, for factories, or for domestic purposes, it may be won by shafts at 120 yeards below the surface.

estimated to yield 6000 tons per acre of first-class marketable coal. Wheeles is team, for factories, or for domestic purposes, it may be won by shafts at 120 yards below the surface.

A fine deposit of BRICK-MAKING CLAY has been recently discovered on the property, which can be worked by level.

The Union and Cannop Gale possesses the advantage of a branch of the Severn and Wye Railway passing through the surface centre in line with the inclination of strata. It is contiguous to the Speech House Station; distance from Lydney Port and from the South Wales Great Western Railway six miles.

The Gale is subject to a royalty to the Orown of 2d. per ton, with a minimum fixed rent of £80 per annum merging in royalties.

For terms and further particulars, apply to Messrs. W. NEEDHAM and Son, M.E., &c., Newport, Mon.; Messrs. Powles and Vezard, Solicitors, Monmouth; and Mr. J. R. N. NORTON, Esq., Solicitor, Monmouth.

BY ORDER OF THE EXECUTRIX.

SALE OF THE FAMOUS
GRAIG LIME QUARRIES,
Including the KILN, TRAMWAYS, WEIGHING MACHINE, and HOUSE,
OFFICES, SMITHY, SHEDS, and all other BUILDINGS erected
thereon, situate close to the TOWN OF DENBIGH.

thereon, situate close to the TOWN OF DENBIGH.

MESSRS. WM. DEW AND SON WILL SELL, BY PUBLIC AUGTION, at the Buil Hotel, Denbigh, on Wednesday, the 25th day of February, 1880, at Two for Three o'clock in the afternoon, punctually, subject to conditions to be produced, the above well-known

LIMESTONE QUARRIES,

Most advantageously situated near the Denbigh Railway Station, connected with the main line by a branch 800 yards long.

Denbigh is an important railway junction, and affords facilities for conveying stone and lime to Cheshire, Lancashire, the Manufacturing, Mining, and Agricultural Districts of both England and the Principality.

The Quarry is in complete working order, and is sold as a going concern. It can be easily worked on a much more extended scale, even with the present appliances, and with a little energy the business can be greatly increased. The stone is held in great esteem by architects and builders.

The rock is almost inexhaustible, easily worked, having plenty of tip room, good floors, and no top; some beds are eminently adapted for polishing.

There is a large demand for the lime for both building and agricultural purposes. Three klins have been constructed at great cost.

The extent of land held for quarrying purposes is 15a. 1s. 37r., and is held under a lease for 60 years, from 1st November, 1858, at a royalty of 2d. per ton, with a minimum dead rent of 250, and the yearly rent of Llawes Field and the lands connected with the branch constaining 2. a. 3 s. 33 r. is 46 6s., held under the same lease; £1 13s. 4d. is charged per month by the railway company for the use of Junction Siding.

Lithographed plans and particulars, with further information, may be had on application to Messra, Gold. Envange.

of Junction Siding.

Lithographed plans and particulars, with further information, may be had on application to Messrs. Gold, Edwards, and Weston, Solicitors, Denbigh, where a copy of the lease can be inspected, or the Auctioneers, Wellfield House, Bangor, and Town Hall, Rhyl.

 $\begin{tabular}{ll} IN & RE & {\tt THE} & {\tt CREDIT} & {\tt COMPANY}, \\ {\tt DEVONSHIRE} & {\tt AND} & {\tt CORNWALL}. \end{tabular}$

DEVONSHIRE AND CORNWALL.

VALUABLE FREEHOLD AND LEASEHOLD MINERAL PROPERTIES,

MESSRS. HARDS, VAUGHAN, AND JENKINSON are instructed by the Liquidators of the Credit Company (Limited) TO SELL, at the Mart, Tokenhouse-yard, London, on Wednesday, the 3rd March, at Two o'clock, in Four Lots, exceedingly VALUABLE FREEHOLD AND LEASEHOLD MINERAL PROPERTIES,

FREEHOLD AND LEASEHOLD MINERAL PROPERTIES, Situated in the parishes of St. Austell, Stoke Climsland, and Calstock, Cornwall, and Brisham, South Devon, viz.:—

The FREEHOLD of the valuable Hematite Iron Ore and all other Minerals underlying the Upton Estate, comprising an area of about 164 acres, situate in the parish of Brixham, a shipping port on the South Coast of Devon, whence there are easy freights to the Welsi ports.

Also, VALUABLE FREEHOLD PROPERTY, situated at Harrow Barrow, in the parish of Calstock, Cornwall, comprising four tenements and gardens, and an enclosure of land, formerly part of a field called East Ball, with absolute right to the Mines and Minerals under same.

Also, the LEASE for 13 years unexpired of the Holmbush and Kelly Bray Copper and Lead Mines, situate in the manor of Stoke Climsland, Cornwall, close to Kelly Bray station on the East Cornwall Mineral Railway, whence trucks are conveyed to the waters edge at Calstock. The Holmbush Mine is exceedingly rich in arsenical mundic and copper and lead ores. The Kelly Bray Mine yields arsenical mundic and copper and lead ores. The Kelly Bray Mine yields arsenical mundic and copper and lead ores. The Kelly Bray Mine yields arsenical mundic and copper and lead ores. The Kelly Bray Mine yields arsenical mundic and copper ore of average quality.

Also, the LEASES (chiefly for 34½ years unexpired) of the Knightor, Treneweth, and Wheal Ruby Iron Mines, situated in the parish of St. Austell, Cornwall. These mines are rich in iron ore of good character.

Detailed particulars and conditions of sale may in due course be obtained of Edwin Andrews East, Solicitor, 27, Clement's-lane, E.C.; of Messrs. Crook and Smith, Solicitors, Abchurch-yard, E.C.; at the Mart; and of the Auctioneers, 6, Moorgate-street, London, E.C.

IN LIQUIDATION.

RE FLORENCE AND TONKIN MINING COMPANY (LIMITED), CALLINGTON, CORNWALL.

CALLINGTON, CORNWALL.

TO BE SOLD, the LEASES, MACHINERY and PLANT (including a capital 25-in. cylinder PUMPING ENGINE), and BUILD-INGS, LAND, and other property of the above company. The sett is intersected by valuable lodes of Sliver-Lead, Copper, and Tin. Tenders to be sent to me, at 23, Osborne-terrace, Clapham-road, London, S.W., where plans, &c., may be seen and further information obtained. February 5th, 1880.

TO BE SOLD BY PUBLIC, AUCTION, under Decree of the Supreme Court of Newfoundland in Equity, in a suit between Charles Fox Benkett, Plaintiff, and Shith, McKay, and Leander Gill, Defendants, on Thursday, the 1st day of July next, at Twelve oclock noon (if not previously disposed of by private sale), at the Court House, St. John's, Newfoundland, that VALUABLE COPPER MINE and MINING PROPERTY called and known as the UNION MINE,

Situate on the east and west sides of Tilt Cove, on the north side of Notre Dame or Green Bay, Newfoundland, and near Cape John, with all erections, improvements, plant, and other property and effects thereto appertaining.

The Mine is held under Grant in fee from the Government of Newfoundland, containing two miles in length by half a mile in breadth; a License of Occupation from the said Government containing one mile square west of and adjoining the Crown Grant, and land held under conveyance of feesimple interest of former owners.

The title-deeds and documents, plans and surveys and Conditions of Sale of the property may be seen, and further information may be obtained, by application to Prescort Emerson, Esq., Q.C., Master in Chancery, at his office, in St. John's, or to either of the undersigned solicitors for the parties, or to either of the parties.

Master in Chancery, St. John's, Newfoundland.

January 23rd, 1880.

January 23rd, 1880. Enabler in Chancery, 5t. Johns, Acwiolindam. For further particulars apply to C. T. Bennett, Esq., 55, Queen's-square, Bristol; Messrs. Henny Bath and Sox, Gresham House, London; or, to Pinsent and Greene, Solicitors for the Plaintiff; Winter and Carter, Solicitors for Defendant, McKav.

IN VOLUNTARY LIQUIDATION UNDER THE COMPANIES ACT, 1862.
THE NEW LLANGYNOG LEAD MINING COMPANY
(LIMITED).

TO BE SOLD, BY PRIVATE TREATY, ALL the BENEFICIAL INTEREST of the New Liangynog Lead Mining Company (Limited) in the LLANGYNOG LEAD MINES, comprising all the valuable, productive, and extensive mines, veins, beds of lead, ores of lead, and other metals and minerals known collectively as the Liangynog Lead Mines, and in the reservoir, water-supply rights, easements, and interests thereto belonging, situate in the several parishes of Liangynog, Lianrhaiadryn-Mochnant, Hirnant, and Pennant, in the county of Montgomery; and also the WHOLE of the movable PLANT and MACHINERY of the said company.

The Liangynog Lead Mines have been a highly productive and dividend-paying property.

The Liangynog Lead Mines have been a nightly productive and dividend-paying property.

The mines, machinery, and plant are in working order, and considerable quantities of ore are now being raised.

The works may be inspected at any time upon application to the Manager at the Mines. The leases and agreements may be inspected at the offices of Messars. LONGUEVILLE, JONES, and WILLIAMS.

All further information may be obtained, and maps of the property inspected, on application to Messrs GRO. HAWREL and Sons, 54, Foregate-street, Chester, te Henry Dennis, Esq., Mining Engineer, Hafod-y-Bwch, Ruabon; or to Messrs. LONGUEVILLE, JONES, and WILLIAMS, Solicitors, Oswestry.

VALUABLE FREEHOLD COLLIERY WITH COAL AND

IRONSTONE MINES.

TO BE SOLD, either the WHOLE or PART of LESSOR'S INTEREST in a LARGE FREEHOLD COLLIERY in one of the North Midland Counties, also a LARGE AREA of LEASEHOLD COAL, with power to work thereout as much as possible during eleven years, without any further payment to Lessor.

ment to Lessor.

The coal is of high repute in the London and Southern Markets, and the plant is powerful and efficient, and included in the Lessor's interest, and is capable of raising a minimum of 4000 tons of coal per week. There is ample siding accomodation in connection with the Midland Railway Company's Main Line to London. The Advertiser would be prepared to CO-OPERATE with the PURCHASER in WORKING the OOLLIERY, finding his proportion of Capital for such purposes. For particulars, apply to Messra. J. and P. Hissox, Civil and Mining Engineers, 18, Crown Buildings, Booth Street, Manchester.

VALUABLE LEAD PROPERTY FOR SALE.

THE OWNERS of a portion of the celebrated MINERA LEAD VEIN, which runs from Minera to Bodidris, from which enormous quantities of lead have been raised, are prepared to DISPOSE, BY PRIVATE TREATY, of a ONE-FOURTH SHARE.

The property is known as the Providence Mine Work, and is provided with engine and plant complete; it is between Minera and Bodidris Mines, about seven miles from Wrexham and six miles from Mold, North Wales; and offers to capitalists and speculators an unusually good opportunity for highly profitable enterprise.

Apply to William Langford, Hesp Alun Cilcen, Mold, Flintshire.

COLLIERIES.

FOREST OF DEAN, GLOUCESTERSHIRE.

FOREST OF DEAN, GLOUCESTERSHIRE.

IX COLLIERIES or GALES FOR SALE, containing valuable

COALS suitable for HOUSEHOLD and other purposes.

The Severn and Wye Railway, in connection with the Great Western Railway and town and docks of Lydney, and also with the newly-made Sharpness Dock rie the New Severn Bridge, distant respectively about four and six miles, runs

through the property.

Address, "No. 38," MINING JOURNAL Office, 26, Fleet-street London, E.C.







A DIPLOMA-HIGHEST OF ALL AWARDS-given by the Geographical Congress, Paris, 1875-M. Favre, Contractor, having exhibited the McKean Drill alone as the MODEL BORING MACHINE for the St. GOTHARD TUNNEL.

SILVER MEDAL of the Highland and West of Scotland Agricultural Society, 1875—HIGHEST AWARD.

At the south end of the St. Gothard Tunnel, where

tive weeks, ending February 7, was 24-90, 27-60, 24-80, 26-10, 28-30, 27-10, 28-40, 28-70 metres. Total advance of south hes 1ing during January was 121.30 metres, or 133 yards.

In a series of comparative trials made at the St. Gothard Tunnel, the McKean Rock Drill continued to work until the pressure was reduced to one-half atmosphere (71 lbs.), showing almost the entire motive force to be available for the blow against the rock—a result of itself indicating many advantages.

The GREAT WESTERN RAJLWAY has adopted these Machines for the SEVERN TUNNEL; the LONDON AND NORTH-WESTERN RAILWAY for the FESTINIOG TUN-NEL: and the BRITISH GOVERNMENT for several Public Works. A considerable number of Mining Companies are now using them. Shafts and Galleries are driven at from three to six times the speed of hand labour, according to the size and number of machines employed, and with important saving in The ratio of advantage over hand labour is greatest where the rock is hardest.

These Machines possess many advantages, which give them a alue unapproached by any other system of Boring Machine.

THE MCKEAN ROCK DRILL IS ATTAINING GENERAL USE THROUGHOUT THE WORLD FOR MINING, TUN-NELLING. QUARRYING, AND SUB-MARINE BORING.

The McKEAN ROCK DRILLS are the most powerful—the most portable—the most durable—the most compact—of the best mechanical device. They contain the fewest parts—have no weak parts—act without shock upon any of the operating parts-work with a lower pressure than any other Rock Drill-may be worked at a higher pressure than any other -may be run with safety to FIFTEEN HUNDRED STROKES PER MINUTE—do not require a mechanic to work them—are the smallest, shortest, and lightest of all machines-will give the longest feed without change of tool-work with long or short stroke at pleasure of operator.

The SAME Machine may be used for sinking, drifting, or open work. Their working parts are best protected against grit and accidents. The various methods of mounting them are the most efficient.

N.B.—Correspondents should state particulars as to character of work in hand in writing us for information, on receipt of which a special definite answer, with reference to our full illustrated catalogue, will be sent.

FORTABLE BOILERS, AIR COMPRESSORS, BORING STEEL, IRON, AND FLEXIBLE TUBING.

The McKean Drill may be seen in operation daily in London.

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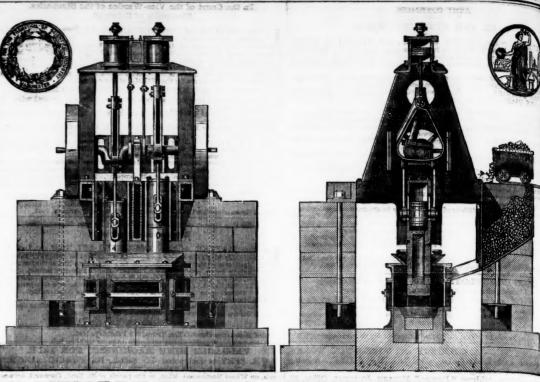
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"Will be the means of preventing many disputesbetween pay clerks an colliers."—Mining Journal.
To be had on application at the MINING JOURNAL Office, 28, Fleet-street, H.O.

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Free Edition, 152 pages, post free, in envelope, two stamps. The

WARNING VOICE.—A Special Medical Book for Young Men
on the Cause, Consequence, and Treatment of certain forms of Dability
and Nervousness, viz.—Mental and Physical Depression, Palpitation of the Heart,
Koises in the Head and Ears, Impaired Sight and Memory, Indigestion, Pains in
the Back, Headache, Piles, Constipation, Hysteria, Disziness, Local Weakness,
Muscular Relaxation, Mervous Ieritability, Blushing, &c., resulting from Exhaus
tion of Nerve power, effect of Overwork, Oity Life, Worry, Brain Toil, Intemper
asse, and either Subses of the system. Rec, and other abuse of the system.
Address. Dr. H. SMITH, S. Barton Crescent, London, W.O.



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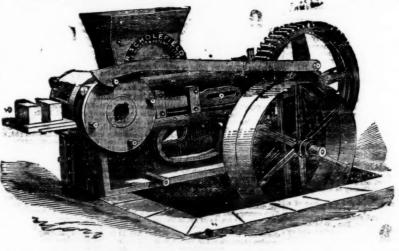
For Pulverising Tin and Lead Ores, Gold Quartz, &c., SOLE MAKERS FOR CORNWALL,

HOLMAN AND JUST FOUNDRY, NEAR PENZANCE.

OTARY STAMPERS SUPPLIED ON THE SAME PRINCIPLE, ALSO WITHOUT STUFFING BOXES OR GLANDS WHERE RUNNIMG GEAR EXISTS, OR WITH HORIZONTAL CONDENSING ENGINES AND BELTS TO DRIVE THEM, IF PREFERRED.

Also, SOLE MAKERS OF STEPHENS' PATENT PULVERISER. MINING AND OTHER MACHINERY CONSTANTLY ON SALE

R. SCHOLEFIELD'S BRICK-MAKING ATENT



R. S. begs to call the attention of all Colliery Owners in particular to his PATENT SEMI-DRY BRICK MACHINE, and the economical methed of making bricks by his patent machinery from the refuse that is taken from the pits during the process of coal-getting, which, instead of storing at the pit's mouth (and naking acres of valuable land use less) is at once made into bricks at a very small cost, by R. S.'s Pateut Brick-making Machinery. Il the material is got from the pit hill, be following is about the cost of

production, and the hands required to make 10,000 pressed bricks per day: -

men digging, each 4s, per day
man grinding, 4s, 6d, per day
boy taking off bricks from machine, and placing them in barrow ready for the kile, 2s, per day
boy greasing, 1s, 6d, per day
engine-man, 5s, per day
man wheeling bricks from machine to kile, 4s, per day

(SETTING AND BURNING SAME PRICE AS HAND MADE BRICKS.)

N.B.—Where the material can be used as it comes from the pis, the cost will be reduced in digging.

As the above Machinery is particularly adapted for the using up of shale, bind, &c., it will be to the advantage of all Colliery Owners to adopt the used the said Brick-making Machinery.

THE MACHINES CAN BE SEEN IN OPERATION AT THE WORKS OF THE SOLE MAKER AND PATENTEE DAILY. SCHOLEFIELD'S ENGINEERING & PATENT BRICK MACHINE WORKS KIRKSTAL ROAD LEEDS.

Electric-Bell Signals for Collieries, Factories, Warehouses, &c.,

WITH OR WITHOUT GALVANIC BATTERIES.

NEW SYSTEM - CAN BE RUNG AT ANY PART OF THE ROAD. Cheap, safe, and reliable. Efficiency guaranteed. LINES OF TELEGRAPH erected and maintained. LIGHTNING CONDUCTORS, &c. For estimates and particulars apply to-

SYDNEY F. WALKER,

TELEGRAPH ENGINEER.

COMMERCIAL BUILDINGS LONG ROW NOTTINGHAM.

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NOBEL'S EXPLOSIVES COMPANY (LIMITED), 149, West George

Supplies may be obtained from any of the following Agents of the Company in Great Britain:

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RIGH and Sons, 4, Basset-street, Gloucester.
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Todeunter and Elliot, Market-place, Douglas, Isle of Man Robert Hamilton, 29, St. James's-square, Edinburgh.
John Donald, 4, Belmont-street, Aberdeen.
William Watson, Sunnyside-road, Coatbridge.
Robert Hamilton, Douglas-street, Dunfermline.
John D. M'Jannet, Park-place, Sterling.
Charles Cunningham, 62, Commercial-street, Dundee.
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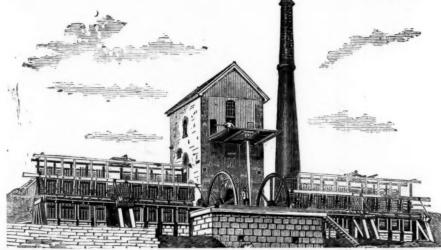
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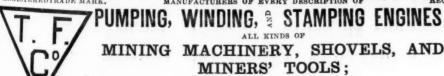
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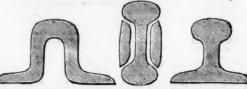
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NON-DIVIDEND MINES-continued.

THE MINING SHARE LIST.

	BRITISI	1 1	OI	VID	ENI	0 1	MINE	S.					
Shares									tal a	lista	Per i	sh. Last	nd.
10000	Caron, I, Cardigan*	2	0	0	254		2 234	() 4		0 2	0Oct. 0Feb.	1878 1874
10240	Devon Gt. Consols, c, a, Tavistock*† Dolcoath, c, t, Camborne	1	0	0	18	***		115	6 15	3		0July 0Jan.	1877 1880
6400	East Pool, t, c, Hlogan	0		9	38		34 36	17	1 12	9	0 17	6Dec.	1879
15000 6400	Ginag. Car., c* [3000esh. £1 pd., 1000 Gorsedd and Merllyn Con., l, Flint. Great Laxey, l, Inie of Man*; Green Hurth, l, Durham* Grogwinion, l, Cardigan*	4 0	0 6	0 0 0	21/2 20 51/2	***	2 2 1/2 19 20	2	5 6 2 5	0	0 5 0 6 0 3	6Aug 0Aug. 0Jan. 0Aug. 10Aug.	1880 1879 1878
2800	Isle of Man, I, Isle of Man*	25	0	0	-			82	5	0	0 10	0Feb.	1879
20000	Leadhille,* l, Lanarkshire	18	15		4 1/4 35		3 1/4 4 30 35	599	15	0	0 3	0Mar. 0Dec.	1878 1879
9000 20000 888	Mellanear, c, Hayle*	7	0 0 14 10 0	0	12%	***	6¼ 6¾ 11 12 2½ 3 6 6½ 1½ 2	68	0		0 5	0Jan. 0Feb. 6Jan. 0Oct. 0Sept. 0Sept.	
10000 6000 18000 12000 12000 512 6123 9000 4500	Pant-y-Mwyn, i, Mold (\$794 sh. im) Pennant, i, bar, North Wales* Prince Patrick, *s-i, Holywell Ditto, pref. (\$800 sh. issued) Red Rock, *l, Cardigan Roman Gravels, i, Salop* South Caradon, c. St. Cleert South Condurrow, t, c, Cambornet South Darren, i, Oardigan* South Wales Frances, t, Illoganf South Wales Frances, t, Illoganf	2510271617	0 0 0 10 0 10 5 5 10 12	0 0 0 0 0 4	2 3 3 12 170 14 3 18		1½ 2 2½ 3 2¾ 3 2½ 2¾ 1½ 12⅓ 145 155 13½ 14 3¼ 3¾ 16 17	74 74	3 10 10 16 0 16 0 4 8 10 6 0 6 12 0 9 9	0 6 9 0 0 0	0 2 0 5 0 1 0 0 0 2 0 5 1 10 0 15 0 2 0 15	0Aug. 0Mar. 6Dec. 9Dec. 0Jan. 0Jan. 0Jan. 0Jan. 0Jan.	1878 1879 1879 1879 1878 1879 1880 1880 1880 1879
12000 6000	Tankerville, l, Salop*†	11	10	0		***	5¾ 6 27 28	50	4 17	6	0 5	0Jan. 0May	1877 1877
	Van, l, Llanidloes*						21 23	2		6	0 10	0Jan.	1880
512 600 1024	West Chiverton, l, Perranzabulosti West Tolgus, c, Redruth	95 51 18	10 0	0	70	***	67% 70	5:	3 0 6 0 7 10	0 0	0 10 1 0 0 15 2 0 .0 16	0Feb. 0Jan. 0Apr. 0Oct. 0Oct.	1878 1879 1878 1879 1879
			-		-								

3 %	TO DATE		77	****	T337T	3.53								
	FOREIG	N	DI	VIL	END	MI	NE	8.						
30000 20000	Alamillos, I, Spain*†	7	7	6	11/4	114	11/2	***	0	3	6	0 1	1 0May 2 0Aug.	1876 1879
35000 10000	Cape Copper Mining,*† South Africa Cesena Sulph. Co., Romagna, Italy* Copiapo, c, Chili* (£20 shares)	10 17	0	0	14	14	15	***	7	19 11	5	0	1 0Aug. 3 0May	1879 1877
70000	Eberhardt and Aurora, s, Nevada*† English & Australian,*† c, S. Aust	2	10	0	23/4	13%	21/8		2	17	9	0	1 0Mar.	1879
25000 55000	Fortuna, l, Spain*† Frontino & Bolivia, g, New Gran.*†	2	0	0	8	278	31/8	***	7	6	5	0 :	6Sept. 1 0Feb.	1879 1879
15000	Linares, l, Spain*!	3		0	614	53/4	614		17	14	10	0 :	2 0Sept.	1879
100000	Portgiband, s-l, Francet	1	0	0	7/8	5%	7/8	***	1	12	0	0 1	0Mar.	1879
	Richmond Consol., s, Nevada*†													
120000	Santa Barbara,* g, Brazil	1	0	0	28/	9 1	21/			9.5	-	·m de	Mare	1070
32000 22500 40625	Ditto, New	2 2	000	0	3 15/8 23/4	136 214	15/8	***	0 2 2	0 7	6	0 1	2 0Jan. l 6Apr. 3 0Oct.	1880 1879 1879
£253000	St. John del Rey" † (£5 Stock and mu	ılti	ple	deal	t in)	260	270	***	121/2	p.	e. for	half	-year, June	1879
20000	Tolima, * g, s, Colombia	5	0	0					0 1	9	0	0 1	6Dec.	1879
25000	Victoria* (London), g, Australia	1	0	0					0	13	11/4	0 0	7½June	1879
2100	W. Prussian (5500 pref. sh. £10 pd.)	10	0	0	101/2	10	1034	***	2	2	0	0 1	0Dec.	1879

f Have made calls since last dividend was paid.

NON-DIVIDEND BRITISH MINES.

| NON-DIVIDEND MINES | Parist | Langest | Lang bl, blende; c, copper; g, gold; l, lead; s, silver; sl, slas;
s-l, silver-lead; t, tin; z, zinc; s, iron; a, arsenie.
* Limited Liability Companies; t quoted on the Stock Erels
; have paid dividends.

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15000 Birdseye Creek, g, California* 4	ord. Cios. 0 0 % 0 0 % 0 0 2 2 15 0 0 0 1% 0 0 % 0 0 34 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 15	% 134 134 5% 234 34 34 14 14 14
100000 Frontenac, , Ontario, Uniana 10 10000 Hornachos, *s.f. Spain	0 0 15	16
2000# Last Chance,* s, Utah	0 0 3/8 0 0 3/8 15 0 0 0 10 0 0 1 1 0 0 4/8 0 0 1/8 0 0 5/8	76 34 11 14 436 176 576
30000 Pestarena United, g, italy 3 25000 Pitanqui, *g, Brazil (in. 6000 £i pd) 0 1 10000 Piacerville, g, q, California 2 40000 Ravenseliff, g, N. Zind; c, s. Aust. 0 388220 Rio Tinto, *c, Huelva, Spain 8to 44850 Ditto 7 p. c. Mort. Bonds. 20 255000 Ditto 7 25500 Ruby and Dunderberg, g, Nevada* 10 100000 Rossa Grande, g, Brazil* (El sh.). 1 2500 Ruby and Dunderberg, g, Nevada* 10 2500 Ditto (10 per cent. deb. conv.). 50 100000 So. Indian, *g, Madras (fully paid) 1 43174 United Mexican, *l, *l, Mexico 25 50000 Virneberg, c, Rheinbreith, Ger.* 2 15000 Western Andes, *l, Colombia 5 55000 Virneberg, c, Rheinbreith, Ger.* 2 15000 Western Andes, *l, Colombia 5 55000 Virnebe Peninsula, c, So. Australia. 5 5000 Virnebe 50000 Virnebe Peninsula, c, So. Australia. 5 5000 Virnebe 50000 Virneb	0 02½ : 5 0 90 0 019½ : 0 0 93½ : 0 0 93½ : 0 0 93½ : 0 0 93½ : 0 0 13½ : 0 0 13½ : 0 0 13½ : 0 0 13½ : 0 0 2 2 0 2 2 0 0 2 2 0 0 2 2	21/5 52 20 1/4 10 43/4 2 1/4 1/4 1/4 1/4

CAR COMPANIES	1
GAS COMPANIES.	
Issue, Shares. Pd. Clos. pr.	
5000 20Bahia [L]all 12½ 135	6 1
40000 5 Bombay [L] all 51/2 6	10 10
10000 5 Ditto, New [L] 4 1 1 1 1	m
29700 8tk Brentford Consolidated 100 145 150	
14000 20British all 32 34	- 10
550000 8tk Commercial	
20000 20 Continental Union [L] all 18 19	
20000 20 Do. do. New, 1869, 1872 14 236 136 d	lia
10000 20 Do. do. 7 per ct. Preference all 23 24	
23406 10European [L]	
4504850 Bik Gaslight and Coke, A. Ord 100 177 181	
50000 10 Ditto, 4th issue all	
50000 10 Ditto, 5th issue	
2842008tk Do, 4 per cent. Deb. Stock100 98 99	
5000 10 Hong Kong and China all 1434 153	
	3
2800000 .8tkImperial Continental100 177 182	
386500 Btk London	
12000 5 Malta & Mediterranean [L] all 1 2 2 %	
100000 Metrop. of Melbourne 6 p.c. Deb 104 106	
25000 20Monte Video [L] all 131/2 145	5
10000 5Ottoman [L] all 2 21/4	
30000 5Oriental [L]	1
27000 20Phœnixall 35 37	-
300000Stk Do., New Max. div. 7% p.ct. 80 115 120	
37500 20Rio de Janeiro [L] all/ 25 26	.01
500000	
250000Stk Ditto, ditte, B190	

15

		INSURANCE COMPANIES.
100000 10 Agra [L]	SIL	
100000 10 Agra [L]		The special section is
100000 10 Agra [L]		BANKS.
Closing prices.		100000 10 Agra [L]
Argentine, 1868, 6 per cent		
City of Toronto, 6 p. ct. Sting. Bnds, 1897-1904.110 112 Egyptian Government pref. 99% 89% Ditto, Unified Debt. 88% 58% Ditto, T per cent. V.M.L. 79 81 Ditto, 9 per cent. guaranteed 33 85 Ditto, K. Daira Sanieh 68% 69% Foreign and Colonial Gov. Trust, preferred 106 108 Ditto, 5 per cent., deferred 101 103 Peruvian, 1870, 6 per cent. 18% 19% Ditto, 1872, 5 per cent. 10% 17 Russian, 5% per cent. 10% 17 Russian, 5% per cent. 100 102 United States Mort. 6 per cent. 103 105	.5	Argentine, 1868, 6 per cent. 88 88 Bolivia, 6 per cent. Bond Com. Cert. 37½ 38½ Brasilian, 1865, 5 per cent. 95 97 Chilian, 1888, 7 per cent. 92 94 City of Melbourne, 5 per cent, 1886–1907. 105 107 City of Ottawa, 8 per cent. Service 108 City of Providence, 5 per cent. coupon bonds. 103 105 City of Providence, 5 per cent. coupon bonds. 103 105

IRON AND COAL COMPANIES.	
Shares, Company, Pard, Price,	4
E100 Abbot, John, and Co [L] £ 75 0 12% 7% dis	1
5 Alltami Colliery Co. [L] 5 0 2 3	
3 Bagnall, John, and Sons [L] 3 0 2½ 2½ 10 Benhar Coal Co. [L]	
50 Bilbao Iron Co [L] 50 0 3346 3456	2
50 Bilson & Crump Mdw Coll [L] 10 0 — 100 Bolckow, Vaughan, & Co. [L] A 60 0 301/4 31 pm	1
100 Bolckow, Yaughan, & Co. [L] A 60 0 30 1/2 31 pm 50 Brown, Bailey, and Dixon [L] 40 0 12 1/2 dis	3
100 Brown, John, and Co. [L] 70 0 11/4 1 dis	1
3 Cakemore Caeway Grn. ord.ah. 3 C 31/4 33/4	
100 Cammell and Co. L1 80 0 1 1/4 dis	3 2
20 Cannock & Huntington Coal L 10 U 5% 9 Cis	1
10 Central Swedish Iron & Stl. [L] 10 0 1 1½ 5 Chapel House Colliery 5 0 1½ 1¾	6
50 Charlton Iron Co. [L] 50 0 5 51/2	1
50 Chatterley Iron Co. [L] 50 0 17 17¼ 10 Chillington Iron Co. [L] 10 0 6¼ 6½	
10 Connects Trees Co FF3 7 10 173/ 191/ pro	
1 Consett Spanish Ore [L] 1 0 5/16 7/16 pm	1
50 Cooke, William, and Co. [L] 45 7 26½ 26 dis 20 Darlington Iron Co. [L] 15 0 4½ 4 dis	1
50 Davy Brothers [1] 22 10 774 Pin [1 2
23 EDOW VAIC CO. [L] 20 0 0 5/3 the	4
100 Fox, Samuel, and Co. [L] 80 0 10 Genl. Mining Ass. [L] (1l. rtd.) 9 0 41/4 43/4	2
15 Hopking Gilkes and Co FF1 15 0 ALC 5	
50 Knowles, Andrew, and Co. [L] 22 0 4 3½ dis	
10 Llay Hall Coal, Iron, &c. [L]— 10 0 — 50 Llynyi, Ogmore, & Tondu [L] 50 0 —	
10 Lydney & Wigpool Iron Ore [L] 9 5 5½ 4½ dis	8
10 Marbella Iron Ore Co. [L] 10 0 4½ 4½	
10 Midland Iron Co. [L] 5 0 3 3½ pm	
10 Monkland Iron & Coal Co. [L] 10 0 4 4¼ 4 Mwyndy Iron Ore [L]	
100 Nant-v-Glok Blaing(8n c prf)100 0 45 48	
3 Nerbudda Coal and Iron [L] 2 0 1½ 1½ dis 10 Newport Abercarn Coal Co. [L] 10 0 6½ 6½	
10 Northmptn. Coal, Iron, &c. [L] 8 0	1
10 Northfield Iron Co. [L] 8 1./ 1 % dis	
35 Palmer's Shipbldg. & Iron [L] 35 0 6 5½ dis 100 Parkgate Iron Co. [L] 65 0 18 18½ pm	8
av Talent Shart and Axietiee [11] 10 0 1 74 dis	
20 Pelsall Coal and Iron [L] 17 10 11/4 1 dis	
10 G - 1 - 11 D - 1 G 111 - C 273 10 0 01 00	
100 Shotts Iron Co. [L]	
100 Sheephridge Iron and Coal [L] 80 0 W M nm	8
50 Silkstone & Dodw.Cl.& Iron [L] 45 0 26½ 25½ dis 50 Somorrostro Iron Co. [L] 50 0	
100 Staveley Iron and Coal Co. [L] 60 0 261/2 281/2 pm	
100 Ditto ditto New 10 0 5 5½ pm 50 Tredegar Iron and Coal, A[L] 26 0 par to ½ pm	
25 Ditto ditto B 25 0 271/2 28	1
20 Ulversion Mining Co. L 16 U 10% 3% dis	1
10 Vancouver Coal [L]	1
25 W.Cumberland Iron & Steel [L] 20 0 5 41/2 dis	
	1
WAGON COMPANIES	1
Shares. Pd. Clos. pr. 10 Birmingham Wagon Co. [L] £10 0 16¾ 17	1
10 Ditto 2nd issue 6 0 11/4 2 pm	
10 Ditto pref., 6 per cent 10 0 11 1/2 12	1
19 Gloucester [13] 10 0 10 10/2	1
10 Ditto 5th issue 5 0 1/ 1/ dis	
10 Met. Rail. Car. & Wagon Co.[L] 5 0 3 3½ pm xd 5 Ditto pref., 6 per cent 5 0 ½6 ½6 pm 10 Midland Rail. Car. & Wag. [L] 10 0 11½ 12½	
5 Ditto pref., 6 per cent 5 0 5/16 7/16 pm 10 Midland Rail. Car. & Wag. [L] 10 0 11/2 12/2	
10 Ditto pref., 6 per cent 1 0 1/2 dis par	1

Shares.		P	M.			Clos.	pr.
10 Birmingham Wag	on Co. [L]	£10	0		1634	17	
10 Ditto 2nd issu	Θ	6	0		11/2	2	pm
10 Ditto pref., 6 p	per cent	10	0	***	113/4	12	
20 British Wagon Co	. [L]	10	0		3/4	1	pm
10 Gloucester [L]		10		***	10	10 1/2	
10 Ditto 5th issue		5	0		1/4		dis
10 Met. Rail. Car. & W 5 Ditto pref., 6 p	Vagon Co.[]	[] 5	0		3	31/4 pm	n xd
5 Ditto pref., 6 p	per cent	5	0		3/10		pm
10 Midland Rail. Car	. & Wag. [[.] 10	0	***	111/2	121/2	
10 Ditto pref., 6 pe	er cent	1	0		1/8	dis	par
20 North Central Wa	agon Co	20	0	***		-	
5 Rail, Car. [L] Old!	bury	5	0		4 1/2	5	
5 Ditto pref., 6 ;	per cent	5	0		43/4	51/4	
20 Sheffield Wagon	Co. [L]	15	0		7/4	5/1	dia
10 Yorkshire Wagon	Co. [L]	10	0		11%	11/2	pm

	mm :
1	TRAMWAYS.
	Issue, Shares, Pd. Ca. 40000 5Anglo-Argentine [L]
is	10000 10 Pagio-Argentine [L]all
1	10000 10Barcelona [L]
. 1	7140 10Belfast Street Tramways allth
is	3050 10Birkenhead, Ordinary
- 1	9290 10 Ditto, 6 per cent. Preference all ll 9290 10 Bristol [L]
1	9290 10Bristol [L]
	24000 10 Dublin all 140
	14690 10Edinburgh Street Tranways all 146
m	35000 10Glasgow Tramway & Omni, fLi. 92
is	10000 10 Hughes Loco, and Tram, works, all 18
516	7500 10 Hull Street Tramways all 21
-	7500 10Imperial [L]
. 1	34000 10 Liverpool Unit. Tram & Om. [L] all 118
is	25000 10London [L] all
18	15000 10London Street Tramways all 11
1	60000 10North Metropolitan all
- 1	8000 10Nottingham and District [L] all94
-	15947 10 Provincial [L] all
- 1	6000 10Sheffield
m	5000 10Southampton all
m	6000 10 Sunderland [L] ali I 10000 10 Swansea ali 54
is	10000 10 Bwansea
is	16500 10 Transpare of Clarenaux [I.] all 101
m	20000 5Tramways of Germany [L] all
is	40000 5 Transpare II to top [T] all 658
	7200 10Wolverhampton [L] all10W
1	Land Fast Carlotter and the same and
is	THE PODADIL COMPANIES
-	TELEGRAPH COMPANIES
1	Shares. Pd. Clos. Fl.
9	
	10 Brazilian Submarine
m	20 Direct United States Cable 20 0 111/2 113
-1	10 Eastern
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